TOKYO 32665866

Figure 1A

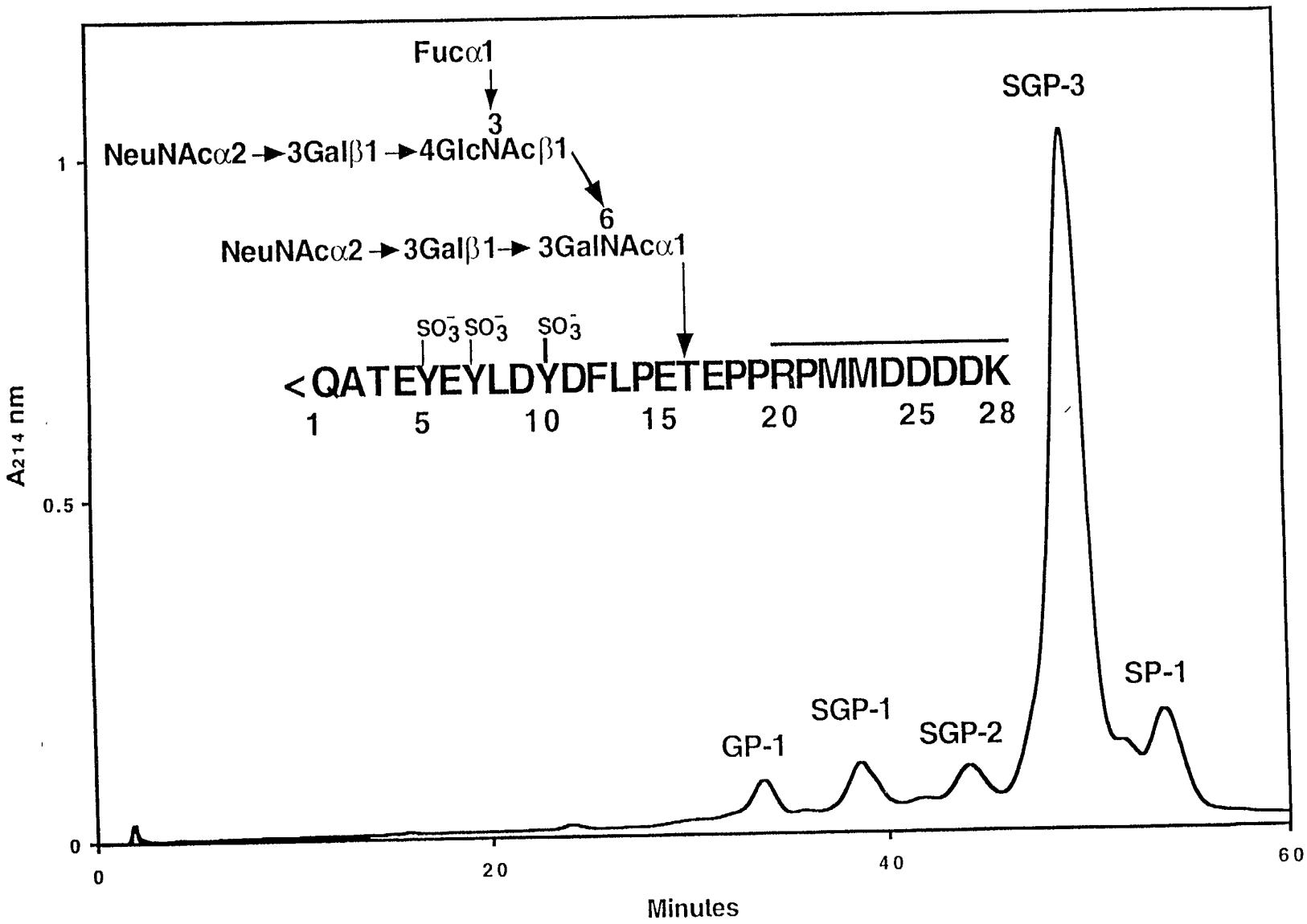


Figure 1B-1

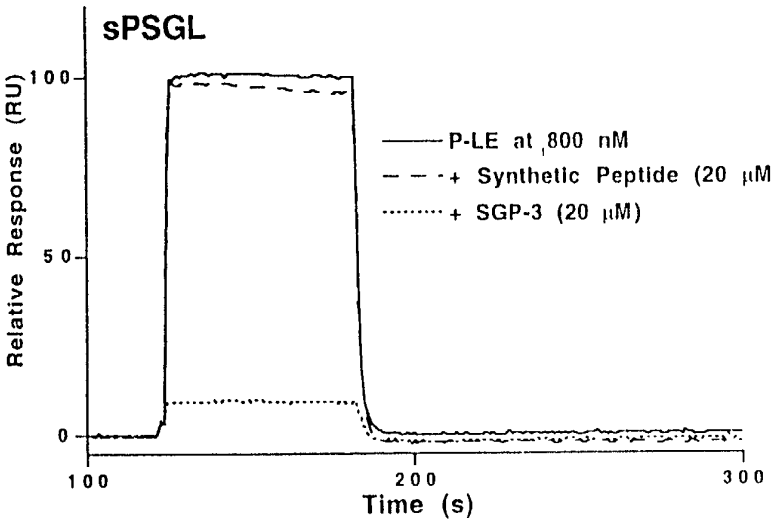


Figure 1B-2

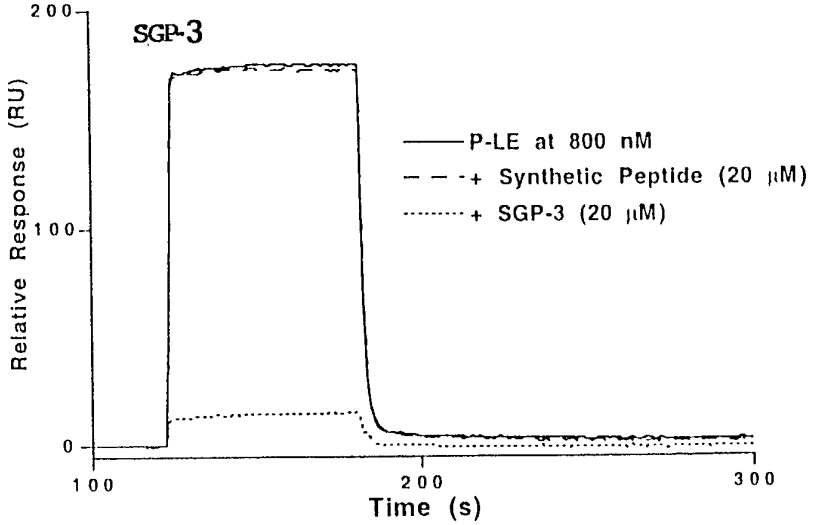


Figure 1C-1

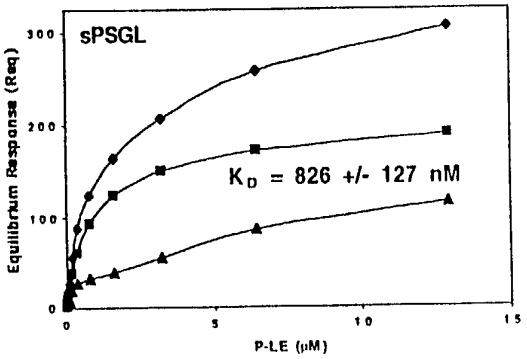


Figure 1C-2

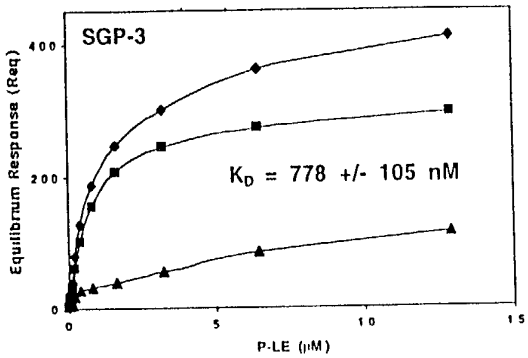


Figure 1C-3

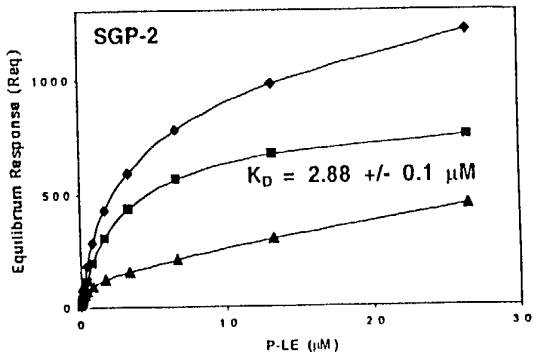


Figure 1C-4

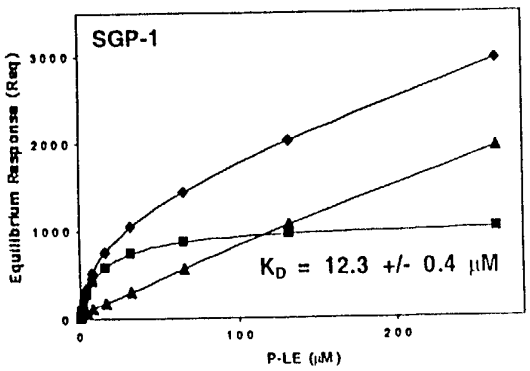


Figure 1C-5

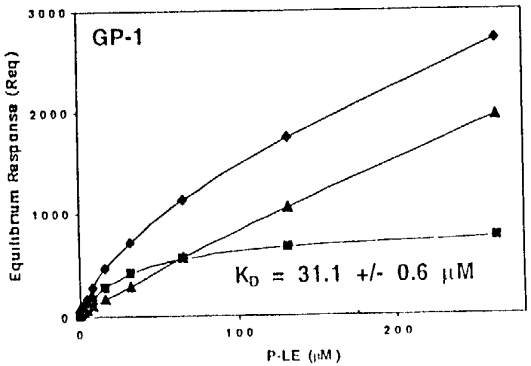


Figure 1C-6

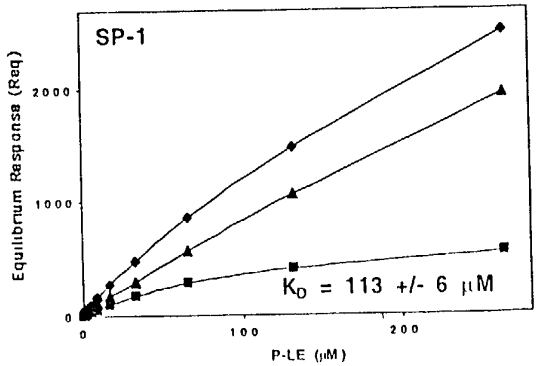


Figure 2

		Atom Type	Residue		X	Y	Z	OCC	B	MOL
ATOM	1	CB	TRP	1	19.847	0.082	9.655	1.00	29.32	MOLA
ATOM	2	CG	TRP	1	20.864	-0.939	10.112	1.00	37.94	MOLA
ATOM	3	CD2	TRP	1	21.938	-0.727	11.048	1.00	34.86	MOLA
ATOM	4	CE2	TRP	1	22.722	-1.913	11.065	1.00	25.49	MOLA
ATOM	5	CE3	TRP	1	22.317	0.348	11.866	1.00	28.64	MOLA
ATOM	6	CD1	TRP	1	21.032	-2.212	9.628	1.00	36.19	MOLA
ATOM	7	NE1	TRP	1	22.144	-2.796	10.193	1.00	30.69	MOLA
ATOM	8	CZ2	TRP	1	23.859	-2.052	11.863	1.00	26.48	MOLA
ATOM	9	CZ3	TRP	1	23.448	0.216	12.664	1.00	28.60	MOLA
ATOM	10	CH2	TRP	1	24.211	-0.981	12.655	1.00	36.79	MOLA
ATOM	11	C	TRP	1	18.356	-1.197	8.062	1.00	32.99	MOLA
ATOM	12	O	TRP	1	18.347	-2.421	7.999	1.00	33.46	MOLA
ATOM	13	N	TRP	1	18.019	-1.316	10.571	1.00	34.53	MOLA
ATOM	14	CA	TRP	1	18.429	-0.469	9.414	1.00	34.91	MOLA
ATOM	15	N	THR	2	18.283	-0.434	6.977	1.00	30.56	MOLA
ATOM	16	CA	THR	2	18.242	-1.035	5.640	1.00	28.82	MOLA
ATOM	17	CB	THR	2	17.138	-0.426	4.757	1.00	26.69	MOLA
ATOM	18	OG1	THR	2	17.290	1.003	4.727	1.00	34.75	MOLA
ATOM	19	CG2	THR	2	15.772	-0.793	5.285	1.00	25.41	MOLA
ATOM	20	C	THR	2	19.597	-0.690	5.050	1.00	25.99	MOLA
ATOM	21	O	THR	2	20.245	0.243	5.504	1.00	29.62	MOLA
ATOM	22	N	TYR	3	20.024	-1.438	4.049	1.00	27.51	MOLA
ATOM	23	CA	TYR	3	21.322	-1.213	3.436	1.00	24.47	MOLA
ATOM	24	CB	TYR	3	22.138	-2.514	3.422	1.00	31.37	MOLA
ATOM	25	CG	TYR	3	22.465	-3.101	4.797	1.00	34.97	MOLA
ATOM	26	CD1	TYR	3	23.317	-2.435	5.690	1.00	24.67	MOLA
ATOM	27	CE1	TYR	3	23.664	-2.995	6.920	1.00	28.93	MOLA
ATOM	28	CD2	TYR	3	21.967	-4.352	5.177	1.00	30.43	MOLA
ATOM	29	CE2	TYR	3	22.321	-4.924	6.401	1.00	31.39	MOLA
ATOM	30	CZ	TYR	3	23.159	-4.249	7.267	1.00	30.73	MOLA
ATOM	31	OH	TYR	3	23.480	-4.822	8.479	1.00	33.37	MOLA
ATOM	32	C	TYR	3	21.165	-0.712	2.009	1.00	29.47	MOLA
ATOM	33	O	TYR	3	20.173	-1.022	1.326	1.00	29.16	MOLA
ATOM	34	N	HIS	4	22.161	0.043	1.556	1.00	28.33	MOLA
ATOM	35	CA	HIS	4	22.152	0.613	0.216	1.00	27.39	MOLA
ATOM	36	CB	HIS	4	21.499	2.006	0.235	1.00	21.74	MOLA
ATOM	37	CG	HIS	4	20.262	2.069	1.068	1.00	23.29	MOLA
ATOM	38	CD2	HIS	4	20.100	2.215	2.407	1.00	22.35	MOLA
ATOM	39	ND1	HIS	4	19.006	1.847	0.546	1.00	20.66	MOLA
ATOM	40	CE1	HIS	4	18.123	1.847	1.533	1.00	29.56	MOLA
ATOM	41	NE2	HIS	4	18.762	2.063	2.672	1.00	24.76	MOLA
ATOM	42	C	HIS	4	23.589	0.784	-0.231	1.00	29.31	MOLA
ATOM	43	O	HIS	4	24.496	0.880	0.614	1.00	27.06	MOLA
ATOM	44	N	TYR	5	23.787	0.849	-1.550	1.00	24.07	MOLA
ATOM	45	CA	TYR	5	25.113	1.060	-2.110	1.00	24.89	MOLA
ATOM	46	CB	TYR	5	25.822	-0.275	-2.350	1.00	21.89	MOLA
ATOM	47	CG	TYR	5	25.167	-1.140	-3.387	1.00	22.71	MOLA
ATOM	48	CD1	TYR	5	24.090	-1.979	-3.062	1.00	21.96	MOLA
ATOM	49	CE1	TYR	5	23.496	-2.799	-4.040	1.00	25.41	MOLA
ATOM	50	CD2	TYR	5	25.622	-1.132	-4.695	1.00	18.85	MOLA
ATOM	51	CE2	TYR	5	25.033	-1.930	-5.679	1.00	24.67	MOLA
ATOM	52	CZ	TYR	5	23.980	-2.758	-5.346	1.00	20.11	MOLA
ATOM	53	OH	TYR	5	23.428	-3.537	-6.325	1.00	34.02	MOLA
ATOM	54	C	TYR	5	25.033	1.812	-3.428	1.00	30.21	MOLA
ATOM	55	O	TYR	5	24.059	1.670	-4.177	1.00	33.73	MOLA
ATOM	56	N	SER	6	26.062	2.598	-3.721	1.00	30.67	MOLA
ATOM	57	CA	SER	6	26.116	3.334	-4.968	1.00	31.22	MOLA
ATOM	58	CB	SER	6	27.019	4.563	-4.832	1.00	33.22	MOLA
ATOM	59	OG	SER	6	28.366	4.188	-4.680	1.00	41.10	MOLA
ATOM	60	C	SER	6	26.656	2.411	-6.058	1.00	36.30	MOLA
ATOM	61	O	SER	6	27.488	1.517	-5.792	1.00	27.41	MOLA
ATOM	62	N	THR	7	26.175	2.634	-7.281	1.00	30.51	MOLA
ATOM	63	CA	THR	7	26.573	1.847	-8.425	1.00	28.85	MOLA
ATOM	64	CB	THR	7	25.468	1.810	-9.447	1.00	33.71	MOLA
ATOM	65	OG1	THR	7	25.016	3.157	-9.673	1.00	34.81	MOLA

ATOM	66	CG2	THR	7	24.307	0.930	-8.944	1.00 24.37	MOLA
ATOM	67	C	THR	7	27.816	2.413	-9.076	1.00 32.08	MOLA
ATOM	68	O	THR	7	28.336	1.851	-10.039	1.00 34.62	MOLA
ATOM	69	N	LYS	8	28.294	3.523	-8.540	1.00 31.74	MOLA
ATOM	70	CA	LYS	8	29.490	4.184	-9.050	1.00 35.27	MOLA
ATOM	71	CB	LYS	8	29.142	5.583	-9.589	1.00 36.82	MOLA
ATOM	72	CG	LYS	8	28.543	5.572	-10.978	1.00 54.55	MOLA
ATOM	73	CD	LYS	8	27.411	6.579	-11.104	1.00 67.07	MOLA
ATOM	74	CE	LYS	8	27.855	8.013	-10.779	1.00 70.34	MOLA
ATOM	75	NZ	LYS	8	26.691	8.969	-10.709	1.00 72.17	MOLA
ATOM	76	C	LYS	8	30.478	4.312	-7.912	1.00 32.65	MOLA
ATOM	77	O	LYS	8	30.076	4.524	-6.769	1.00 31.98	MOLA
ATOM	78	N	ALA	9	31.764	4.202	-8.217	1.00 28.34	MOLA
ATOM	79	CA	ALA	9	32.808	4.308	-7.182	1.00 31.18	MOLA
ATOM	80	CB	ALA	9	34.029	3.467	-7.573	1.00 23.44	MOLA
ATOM	81	C	ALA	9	33.231	5.753	-6.954	1.00 29.53	MOLA
ATOM	82	O	ALA	9	33.301	6.543	-7.897	1.00 32.09	MOLA
ATOM	83	N	TYR	10	33.513	6.089	-5.698	1.00 34.04	MOLA
ATOM	84	CA	TYR	10	33.929	7.446	-5.321	1.00 33.74	MOLA
ATOM	85	CB	TYR	10	32.750	8.301	-4.841	1.00 36.97	MOLA
ATOM	86	CG	TYR	10	31.545	8.409	-5.735	1.00 38.74	MOLA
ATOM	87	CD1	TYR	10	31.611	9.053	-6.983	1.00 37.80	MOLA
ATOM	88	CE1	TYR	10	30.464	9.208	-7.774	1.00 34.44	MOLA
ATOM	89	CD2	TYR	10	30.318	7.921	-5.303	1.00 35.87	MOLA
ATOM	90	CE2	TYR	10	29.172	8.071	-6.079	1.00 43.26	MOLA
ATOM	91	CZ	TYR	10	29.248	8.715	-7.303	1.00 40.61	MOLA
ATOM	92	OH	TYR	10	28.089	8.876	-8.013	1.00 48.21	MOLA
ATOM	93	C	TYR	10	34.906	7.460	-4.160	1.00 35.75	MOLA
ATOM	94	O	TYR	10	35.013	6.509	-3.380	1.00 33.44	MOLA
ATOM	95	N	SER	11	35.587	8.590	-4.037	1.00 35.41	MOLA
ATOM	96	CA	SER	11	36.497	8.817	-2.937	1.00 32.22	MOLA
ATOM	97	CB	SER	11	36.982	10.264	-2.955	1.00 39.72	MOLA
ATOM	98	OG	SER	11	35.911	11.153	-2.644	1.00 44.14	MOLA
ATOM	99	C	SER	11	35.669	8.607	-1.666	1.00 28.83	MOLA
ATOM	100	O	SER	11	34.424	8.678	-1.676	1.00 23.91	MOLA
ATOM	101	N	TRP	12	36.346	8.379	-0.556	1.00 23.97	MOLA
ATOM	102	CA	TRP	12	35.598	8.195	0.667	1.00 30.57	MOLA
ATOM	103	CB	TRP	12	36.547	7.995	1.835	1.00 31.72	MOLA
ATOM	104	CG	TRP	12	35.876	7.485	3.039	1.00 34.96	MOLA
ATOM	105	CD2	TRP	12	35.327	8.269	4.101	1.00 41.29	MOLA
ATOM	106	CE2	TRP	12	34.809	7.364	5.064	1.00 37.07	MOLA
ATOM	107	CE3	TRP	12	35.227	9.646	4.336	1.00 28.76	MOLA
ATOM	108	CD1	TRP	12	35.675	6.184	3.377	1.00 32.46	MOLA
ATOM	109	NE1	TRP	12	35.034	6.099	4.596	1.00 36.91	MOLA
ATOM	110	CZ2	TRP	12	34.202	7.791	6.243	1.00 35.16	MOLA
ATOM	111	CZ3	TRP	12	34.623	10.077	5.511	1.00 25.66	MOLA
ATOM	112	CH2	TRP	12	34.117	9.148	6.454	1.00 38.11	MOLA
ATOM	113	C	TRP	12	34.670	9.389	0.944	1.00 34.47	MOLA
ATOM	114	O	TRP	12	33.459	9.195	1.120	1.00 36.47	MOLA
ATOM	115	N	ASN	13	35.207	10.615	0.980	1.00 35.87	MOLA
ATOM	116	CA	ASN	13	34.352	11.788	1.276	1.00 34.00	MOLA
ATOM	117	CB	ASN	13	35.102	13.109	1.119	1.00 38.11	MOLA
ATOM	118	CG	ASN	13	36.143	13.303	2.162	1.00 35.80	MOLA
ATOM	119	OD1	ASN	13	35.963	12.918	3.332	1.00 34.51	MOLA
ATOM	120	ND2	ASN	13	37.254	13.917	1.761	1.00 39.93	MOLA
ATOM	121	C	ASN	13	33.104	11.882	0.418	1.00 29.47	MOLA
ATOM	122	O	ASN	13	32.008	12.101	0.923	1.00 32.26	MOLA
ATOM	123	N	ILE	14	33.256	11.745	-0.889	1.00 30.44	MOLA
ATOM	124	CA	ILE	14	32.079	11.817	-1.740	1.00 31.56	MOLA
ATOM	125	CB	ILE	14	32.523	11.901	-3.211	1.00 34.74	MOLA
ATOM	126	CG2	ILE	14	31.327	11.674	-4.149	1.00 31.95	MOLA
ATOM	127	CG1	ILE	14	33.210	13.270	-3.428	1.00 34.27	MOLA
ATOM	128	CD1	ILE	14	33.838	13.453	-4.786	1.00 29.35	MOLA
ATOM	129	C	ILE	14	31.089	10.650	-1.486	1.00 35.11	MOLA
ATOM	130	O	ILE	14	29.853	10.824	-1.598	1.00 39.26	MOLA
ATOM	131	N	SER	15	31.624	9.480	-1.119	1.00 27.82	MOLA

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ATOM    132  CA  SER    15      30.791   8.303  -0.818  1.00 26.64      MOLA
ATOM    133  CB  SER    15      31.662   7.064  -0.552  1.00 27.91      MOLA
ATOM    134  OG  SER    15      32.323   6.648  -1.739  1.00 34.91      MOLA
ATOM    135  C   SER    15      29.935   8.584   0.397  1.00 24.34      MOLA
ATOM    136  O   SER    15      28.757   8.232   0.415  1.00 28.77      MOLA
ATOM    137  N   ARG    16      30.525   9.219   1.409  1.00 21.47      MOLA
ATOM    138  CA  ARG    16      29.777   9.568   2.610  1.00 28.03      MOLA
ATOM    139  CB  ARG    16      30.699  10.115   3.712  1.00 32.92      MOLA
ATOM    140  CG  ARG    16      29.930  10.391   4.974  1.00 34.11      MOLA
ATOM    141  CD  ARG    16      30.752  10.660   6.233  1.00 30.80      MOLA
ATOM    142  NE  ARG    16      29.803  10.623   7.346  1.00 33.75      MOLA
ATOM    143  CZ  ARG    16      30.046  11.016   8.591  1.00 39.23      MOLA
ATOM    144  NH1 ARG    16      31.231  11.497   8.925  1.00 26.93      MOLA
ATOM    145  NH2 ARG    16      29.091  10.915   9.507  1.00 35.99      MOLA
ATOM    146  C   ARG    16      28.686  10.606   2.325  1.00 36.85      MOLA
ATOM    147  O   ARG    16      27.554  10.501   2.868  1.00 40.07      MOLA
ATOM    148  N   ALA    17      29.000  11.609   1.493  1.00 33.24      MOLA
ATOM    149  CA  ALA    17      27.985  12.637   1.184  1.00 29.97      MOLA
ATOM    150  CB  ALA    17      28.573  13.784   0.285  1.00 31.76      MOLA
ATOM    151  C   ALA    17      26.845  11.915   0.479  1.00 25.63      MOLA
ATOM    152  O   ALA    17      25.674  12.186   0.733  1.00 28.12      MOLA
ATOM    153  N   TYR    18      27.195  10.959  -0.380  1.00 31.76      MOLA
ATOM    154  CA  TYR    18      26.184  10.186  -1.106  1.00 32.23      MOLA
ATOM    155  CB  TYR    18      26.870   9.188  -2.061  1.00 30.66      MOLA
ATOM    156  CG  TYR    18      25.926   8.207  -2.745  1.00 36.19      MOLA
ATOM    157  CD1 TYR    18      25.365   7.122  -2.044  1.00 28.62      MOLA
ATOM    158  CE1 TYR    18      24.484   6.240  -2.666  1.00 23.87      MOLA
ATOM    159  CD2 TYR    18      25.574   8.369  -4.086  1.00 28.57      MOLA
ATOM    160  CE2 TYR    18      24.692   7.485  -4.712  1.00 29.44      MOLA
ATOM    161  CZ  TYR    18      24.153   6.427  -3.996  1.00 35.99      MOLA
ATOM    162  OH  TYR    18      23.273   5.559  -4.618  1.00 26.96      MOLA
ATOM    163  C   TYR    18      25.259   9.449  -0.124  1.00 33.50      MOLA
ATOM    164  O   TYR    18      24.027   9.462  -0.286  1.00 33.54      MOLA
ATOM    165  N   CYS    19      25.848   8.822   0.896  1.00 31.30      MOLA
ATOM    166  CA  CYS    19      25.057   8.088   1.883  1.00 33.72      MOLA
ATOM    167  C   CYS    19      24.213   9.057   2.699  1.00 34.23      MOLA
ATOM    168  O   CYS    19      23.033   8.806   2.973  1.00 32.25      MOLA
ATOM    169  CB  CYS    19      25.964   7.284   2.819  1.00 26.94      MOLA
ATOM    170  SG  CYS    19      26.822   5.854   2.055  1.00 31.39      MOLA
ATOM    171  N   GLN    20      24.806  10.185   3.079  1.00 39.69      MOLA
ATOM    172  CA  GLN    20      24.051  11.152   3.871  1.00 43.85      MOLA
ATOM    173  CB  GLN    20      24.998  12.155   4.491  1.00 41.88      MOLA
ATOM    174  CG  GLN    20      25.874  11.510   5.539  1.00 42.52      MOLA
ATOM    175  CD  GLN    20      26.889  12.466   6.071  1.00 38.21      MOLA
ATOM    176  OE1 GLN    20      27.559  13.134   5.301  1.00 36.48      MOLA
ATOM    177  NE2 GLN    20      27.019  12.535   7.394  1.00 40.51      MOLA
ATOM    178  C   GLN    20      22.908  11.859   3.136  1.00 39.30      MOLA
ATOM    179  O   GLN    20      21.878  12.161   3.736  1.00 39.11      MOLA
ATOM    180  N   ASN    21      23.055  12.086   1.839  1.00 34.32      MOLA
ATOM    181  CA  ASN    21      21.983  12.746   1.115  1.00 37.59      MOLA
ATOM    182  CB  ASN    21      22.544  13.409  -0.143  1.00 29.92      MOLA
ATOM    183  CG  ASN    21      23.486  14.553   0.196  1.00 36.93      MOLA
ATOM    184  OD1 ASN    21      24.358  14.916  -0.588  1.00 47.05      MOLA
ATOM    185  ND2 ASN    21      23.314  15.122   1.383  1.00 37.45      MOLA
ATOM    186  C   ASN    21      20.794  11.852   0.780  1.00 38.95      MOLA
ATOM    187  O   ASN    21      19.677  12.340   0.672  1.00 42.27      MOLA
ATOM    188  N   ARG    22      21.007  10.548   0.635  1.00 41.69      MOLA
ATOM    189  CA  ARG    22      19.890   9.660   0.303  1.00 42.06      MOLA
ATOM    190  CB  ARG    22      20.271   8.674  -0.811  1.00 38.20      MOLA
ATOM    191  CG  ARG    22      20.561   9.306  -2.145  1.00 39.58      MOLA
ATOM    192  CD  ARG    22      21.177   8.293  -3.091  1.00 46.44      MOLA
ATOM    193  NE  ARG    22      21.586   8.930  -4.335  1.00 49.36      MOLA
ATOM    194  CZ  ARG    22      22.448   9.948  -4.406  1.00 57.88      MOLA
ATOM    195  NH1 ARG    22      23.000  10.443  -3.297  1.00 55.23      MOLA
ATOM    196  NH2 ARG    22      22.747  10.494  -5.582  1.00 48.90      MOLA
ATOM    197  C   ARG    22      19.407   8.850   1.483  1.00 43.08      MOLA
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ATOM	198	O	ARG	22	18.235	8.491	1.544	1.00 41.15	MOLA
ATOM	199	N	TYR	23	20.311	8.589	2.425	1.00 42.22	MOLA
ATOM	200	CA	TYR	23	20.013	7.735	3.572	1.00 39.36	MOLA
ATOM	201	CB	TYR	23	20.697	6.386	3.319	1.00 31.74	MOLA
ATOM	202	CG	TYR	23	20.483	5.891	1.898	1.00 25.00	MOLA
ATOM	203	CD1	TYR	23	19.206	5.536	1.453	1.00 33.36	MOLA
ATOM	204	CE1	TYR	23	18.978	5.079	0.146	1.00 26.11	MOLA
ATOM	205	CD2	TYR	23	21.549	5.780	0.995	1.00 23.49	MOLA
ATOM	206	CE2	TYR	23	21.344	5.310	-0.319	1.00 20.15	MOLA
ATOM	207	CZ	TYR	23	20.044	4.962	-0.733	1.00 31.67	MOLA
ATOM	208	OH	TYR	23	19.790	4.474	-1.995	1.00 27.44	MOLA
ATOM	209	C	TYR	23	20.507	8.355	4.874	1.00 38.63	MOLA
ATOM	210	O	TYR	23	20.374	9.563	5.070	1.00 42.16	MOLA
ATOM	211	N	THR	24	21.077	7.534	5.757	1.00 34.45	MOLA
ATOM	212	CA	THR	24	21.604	8.023	7.036	1.00 30.57	MOLA
ATOM	213	CB	THR	24	21.314	7.039	8.198	1.00 29.96	MOLA
ATOM	214	OG1	THR	24	19.923	6.704	8.223	1.00 31.53	MOLA
ATOM	215	CG2	THR	24	21.678	7.662	9.532	1.00 25.80	MOLA
ATOM	216	C	THR	24	23.120	8.258	6.981	1.00 33.47	MOLA
ATOM	217	O	THR	24	23.570	9.365	7.212	1.00 36.78	MOLA
ATOM	218	N	ASP	25	23.904	7.220	6.680	1.00 38.43	MOLA
ATOM	219	CA	ASP	25	25.365	7.357	6.623	1.00 35.35	MOLA
ATOM	220	CB	ASP	25	25.917	7.594	8.021	1.00 29.91	MOLA
ATOM	221	CG	ASP	25	26.967	8.686	8.064	1.00 29.86	MOLA
ATOM	222	OD1	ASP	25	27.870	8.717	7.210	1.00 26.79	MOLA
ATOM	223	OD2	ASP	25	26.889	9.520	8.980	1.00 38.53	MOLA
ATOM	224	C	ASP	25	26.025	6.102	6.064	1.00 35.71	MOLA
ATOM	225	O	ASP	25	25.333	5.143	5.721	1.00 34.49	MOLA
ATOM	226	N	LEU	26	27.360	6.125	5.969	1.00 33.40	MOLA
ATOM	227	CA	LEU	26	28.141	4.975	5.508	1.00 28.67	MOLA
ATOM	228	CB	LEU	26	29.630	5.335	5.463	1.00 30.07	MOLA
ATOM	229	CG	LEU	26	30.140	6.186	4.290	1.00 37.71	MOLA
ATOM	230	CD1	LEU	26	31.584	6.544	4.531	1.00 33.64	MOLA
ATOM	231	CD2	LEU	26	30.016	5.437	2.969	1.00 25.30	MOLA
ATOM	232	C	LEU	26	27.857	3.881	6.568	1.00 36.37	MOLA
ATOM	233	O	LEU	26	27.690	4.217	7.762	1.00 32.53	MOLA
ATOM	234	N	VAL	27	27.800	2.600	6.163	1.00 29.36	MOLA
ATOM	235	CA	VAL	27	27.436	1.541	7.117	1.00 28.57	MOLA
ATOM	236	CB	VAL	27	27.459	0.090	6.524	1.00 36.64	MOLA
ATOM	237	CG1	VAL	27	26.328	-0.096	5.517	1.00 44.42	MOLA
ATOM	238	CG2	VAL	27	28.844	-0.216	5.930	1.00 28.51	MOLA
ATOM	239	C	VAL	27	28.214	1.394	8.392	1.00 20.84	MOLA
ATOM	240	O	VAL	27	29.427	1.519	8.422	1.00 23.40	MOLA
ATOM	241	N	ALA	28	27.476	1.088	9.441	1.00 13.45	MOLA
ATOM	242	CA	ALA	28	28.054	0.786	10.733	1.00 22.70	MOLA
ATOM	243	CB	ALA	28	27.319	1.518	11.799	1.00 21.17	MOLA
ATOM	244	C	ALA	28	27.800	-0.740	10.872	1.00 28.11	MOLA
ATOM	245	O	ALA	28	26.747	-1.242	10.468	1.00 21.83	MOLA
ATOM	246	N	ILE	29	28.760	-1.462	11.445	1.00 34.05	MOLA
ATOM	247	CA	ILE	29	28.640	-2.910	11.619	1.00 30.61	MOLA
ATOM	248	CB	ILE	29	29.785	-3.642	10.891	1.00 28.08	MOLA
ATOM	249	CG2	ILE	29	29.790	-5.121	11.270	1.00 30.80	MOLA
ATOM	250	CG1	ILE	29	29.640	-3.431	9.382	1.00 29.73	MOLA
ATOM	251	CD1	ILE	29	30.816	-3.926	8.573	1.00 25.48	MOLA
ATOM	252	C	ILE	29	28.676	-3.264	13.098	1.00 31.07	MOLA
ATOM	253	O	ILE	29	29.551	-2.803	13.840	1.00 36.44	MOLA
ATOM	254	N	GLN	30	27.721	-4.092	13.509	1.00 30.73	MOLA
ATOM	255	CA	GLN	30	27.589	-4.537	14.894	1.00 33.39	MOLA
ATOM	256	CB	GLN	30	26.124	-4.400	15.323	1.00 30.83	MOLA
ATOM	257	CG	GLN	30	25.644	-2.940	15.367	1.00 30.06	MOLA
ATOM	258	CD	GLN	30	24.149	-2.798	15.580	1.00 31.95	MOLA
ATOM	259	OE1	GLN	30	23.708	-2.009	16.421	1.00 38.35	MOLA
ATOM	260	NE2	GLN	30	23.362	-3.546	14.815	1.00 31.97	MOLA
ATOM	261	C	GLN	30	28.056	-5.969	15.198	1.00 36.71	MOLA
ATOM	262	O	GLN	30	28.549	-6.234	16.296	1.00 37.18	MOLA
ATOM	263	N	ASN	31	27.919	-6.882	14.231	1.00 36.78	MOLA

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ATOM	264	CA	ASN	31	28.258	-8.300	14.448	1.00 32.27	MOLA
ATOM	265	CB	ASN	31	27.070	-8.987	15.138	1.00 21.48	MOLA
ATOM	266	CG	ASN	31	25.819	-8.872	14.322	1.00 30.96	MOLA
ATOM	267	OD1	ASN	31	25.803	-9.299	13.161	1.00 33.80	MOLA
ATOM	268	ND2	ASN	31	24.769	-8.272	14.890	1.00 24.48	MOLA
ATOM	269	C	ASN	31	28.589	-9.049	13.159	1.00 27.53	MOLA
ATOM	270	O	ASN	31	28.333	-8.548	12.049	1.00 27.32	MOLA
ATOM	271	N	LYS	32	29.137	-10.258	13.312	1.00 22.59	MOLA
ATOM	272	CA	LYS	32	29.536	-11.097	12.166	1.00 22.44	MOLA
ATOM	273	CB	LYS	32	30.327	-12.341	12.626	1.00 31.63	MOLA
ATOM	274	CG	LYS	32	31.606	-12.057	13.414	1.00 32.45	MOLA
ATOM	275	CD	LYS	32	32.580	-11.228	12.603	1.00 35.20	MOLA
ATOM	276	CE	LYS	32	33.971	-11.183	13.259	1.00 51.21	MOLA
ATOM	277	NZ	LYS	32	34.014	-10.562	14.633	1.00 44.82	MOLA
ATOM	278	C	LYS	32	28.338	-11.538	11.327	1.00 17.09	MOLA
ATOM	279	O	LYS	32	28.481	-11.845	10.161	1.00 27.43	MOLA
ATOM	280	N	ASN	33	27.150	-11.556	11.902	1.00 17.51	MOLA
ATOM	281	CA	ASN	33	25.997	-11.931	11.097	1.00 26.17	MOLA
ATOM	282	CB	ASN	33	24.764	-12.073	11.976	1.00 24.11	MOLA
ATOM	283	CG	ASN	33	24.877	-13.265	12.911	1.00 31.35	MOLA
ATOM	284	OD1	ASN	33	25.644	-14.203	12.646	1.00 28.67	MOLA
ATOM	285	ND2	ASN	33	24.119	-13.243	14.005	1.00 34.48	MOLA
ATOM	286	C	ASN	33	25.748	-10.915	9.987	1.00 27.02	MOLA
ATOM	287	O	ASN	33	25.544	-11.290	8.816	1.00 26.59	MOLA
ATOM	288	N	GLU	34	25.792	-9.631	10.353	1.00 27.69	MOLA
ATOM	289	CA	GLU	34	25.556	-8.561	9.386	1.00 24.52	MOLA
ATOM	290	CB	GLU	34	25.592	-7.202	10.082	1.00 25.12	MOLA
ATOM	291	CG	GLU	34	24.502	-7.061	11.134	1.00 27.03	MOLA
ATOM	292	CD	GLU	34	24.724	-5.883	12.065	1.00 34.16	MOLA
ATOM	293	OE1	GLU	34	25.758	-5.182	11.938	1.00 28.87	MOLA
ATOM	294	OE2	GLU	34	23.862	-5.657	12.942	1.00 37.25	MOLA
ATOM	295	C	GLU	34	26.633	-8.671	8.328	1.00 28.28	MOLA
ATOM	296	O	GLU	34	26.361	-8.548	7.128	1.00 27.07	MOLA
ATOM	297	N	ILE	35	27.859	-8.951	8.759	1.00 24.93	MOLA
ATOM	298	CA	ILE	35	28.903	-9.075	7.773	1.00 28.45	MOLA
ATOM	299	CB	ILE	35	30.268	-9.298	8.404	1.00 17.63	MOLA
ATOM	300	CG2	ILE	35	31.307	-9.544	7.288	1.00 20.82	MOLA
ATOM	301	CG1	ILE	35	30.630	-8.072	9.251	1.00 23.01	MOLA
ATOM	302	CD1	ILE	35	32.088	-8.012	9.741	1.00 22.61	MOLA
ATOM	303	C	ILE	35	28.587	-10.206	6.803	1.00 31.44	MOLA
ATOM	304	O	ILE	35	28.710	-10.051	5.587	1.00 31.24	MOLA
ATOM	305	N	ASP	36	28.172	-11.346	7.334	1.00 30.09	MOLA
ATOM	306	CA	ASP	36	27.835	-12.464	6.465	1.00 26.54	MOLA
ATOM	307	CB	ASP	36	27.327	-13.663	7.291	1.00 29.43	MOLA
ATOM	308	CG	ASP	36	26.876	-14.807	6.414	1.00 36.55	MOLA
ATOM	309	OD1	ASP	36	25.709	-14.779	5.955	1.00 34.53	MOLA
ATOM	310	OD2	ASP	36	27.706	-15.721	6.154	1.00 30.35	MOLA
ATOM	311	C	ASP	36	26.761	-12.053	5.449	1.00 23.31	MOLA
ATOM	312	O	ASP	36	26.867	-12.347	4.268	1.00 24.35	MOLA
ATOM	313	N	TYR	37	25.732	-11.366	5.935	1.00 21.32	MOLA
ATOM	314	CA	TYR	37	24.600	-10.941	5.107	1.00 20.28	MOLA
ATOM	315	CB	TYR	37	23.547	-10.270	5.997	1.00 25.00	MOLA
ATOM	316	CG	TYR	37	22.287	-9.845	5.276	1.00 31.71	MOLA
ATOM	317	CD1	TYR	37	21.271	-10.772	4.989	1.00 31.40	MOLA
ATOM	318	CE1	TYR	37	20.114	-10.395	4.291	1.00 29.69	MOLA
ATOM	319	CD2	TYR	37	22.114	-8.527	4.851	1.00 27.00	MOLA
ATOM	320	CE2	TYR	37	20.955	-8.141	4.152	1.00 31.44	MOLA
ATOM	321	CZ	TYR	37	19.962	-9.083	3.875	1.00 31.31	MOLA
ATOM	322	OH	TYR	37	18.834	-8.714	3.172	1.00 29.44	MOLA
ATOM	323	C	TYR	37	25.024	-9.970	4.004	1.00 19.73	MOLA
ATOM	324	O	TYR	37	24.651	-10.131	2.856	1.00 22.00	MOLA
ATOM	325	N	LEU	38	25.791	-8.942	4.359	1.00 26.08	MOLA
ATOM	326	CA	LEU	38	26.230	-7.990	3.354	1.00 25.46	MOLA
ATOM	327	CB	LEU	38	27.100	-6.907	3.980	1.00 23.84	MOLA
ATOM	328	CG	LEU	38	26.405	-6.025	5.021	1.00 31.06	MOLA
ATOM	329	CD1	LEU	38	27.481	-5.390	5.907	1.00 24.08	MOLA

ATOM 330 CD2 LEU 38 25.535 -4.969 4.341 1.00 25.72 MOLA
ATOM 331 C LEU 38 27.044 -8.716 2.297 1.00 26.58 MOLA
ATOM 332 O LEU 38 26.873 -8.498 1.092 1.00 24.89 MOLA
ATOM 333 N ASN 39 27.912 -9.607 2.749 1.00 22.76 MOLA
ATOM 334 CA ASN 39 28.778 -10.306 1.819 1.00 26.42 MOLA
ATOM 335 CB ASN 39 29.741 -11.230 2.556 1.00 13.80 MOLA
ATOM 336 CG ASN 39 30.800 -11.773 1.634 1.00 28.75 MOLA
ATOM 337 OD1 ASN 39 31.707 -11.042 1.220 1.00 23.40 MOLA
ATOM 338 ND2 ASN 39 30.681 -13.054 1.273 1.00 21.52 MOLA
ATOM 339 C ASN 39 28.014 -11.115 0.794 1.00 24.90 MOLA
ATOM 340 O ASN 39 28.466 -11.283 -0.349 1.00 20.43 MOLA
ATOM 341 N LYS 40 26.852 -11.630 1.183 1.00 24.07 MOLA
ATOM 342 CA LYS 40 26.141 -12.405 0.194 1.00 30.98 MOLA
ATOM 343 CB LYS 40 25.441 -13.611 0.835 1.00 39.38 MOLA
ATOM 344 CG LYS 40 24.447 -13.298 1.876 1.00 35.87 MOLA
ATOM 345 CD LYS 40 24.601 -14.260 3.065 1.00 49.02 MOLA
ATOM 346 CE LYS 40 24.194 -15.692 2.773 1.00 38.27 MOLA
ATOM 347 NZ LYS 40 24.704 -16.595 3.873 1.00 35.67 MOLA
ATOM 348 C LYS 40 25.193 -11.608 -0.691 1.00 29.92 MOLA
ATOM 349 O LYS 40 25.132 -11.889 -1.886 1.00 21.73 MOLA
ATOM 350 N VAL 41 24.534 -10.576 -0.149 1.00 23.90 MOLA
ATOM 351 CA VAL 41 23.576 -9.805 -0.937 1.00 24.38 MOLA
ATOM 352 CB VAL 41 22.550 -9.087 -0.035 1.00 26.64 MOLA
ATOM 353 CG1 VAL 41 21.948 -10.059 0.940 1.00 24.05 MOLA
ATOM 354 CG2 VAL 41 23.193 -7.925 0.673 1.00 18.89 MOLA
ATOM 355 C VAL 41 24.146 -8.767 -1.901 1.00 28.53 MOLA
ATOM 356 O VAL 41 23.523 -8.456 -2.900 1.00 29.37 MOLA
ATOM 357 N LEU 42 25.335 -8.253 -1.612 1.00 24.01 MOLA
ATOM 358 CA LEU 42 25.966 -7.220 -2.432 1.00 21.40 MOLA
ATOM 359 CB LEU 42 26.950 -6.418 -1.585 1.00 17.03 MOLA
ATOM 360 CG LEU 42 26.367 -5.577 -0.445 1.00 26.06 MOLA
ATOM 361 CD1 LEU 42 27.496 -5.082 0.462 1.00 19.85 MOLA
ATOM 362 CD2 LEU 42 25.566 -4.404 -1.042 1.00 17.98 MOLA
ATOM 363 C LEU 42 26.683 -7.736 -3.657 1.00 19.30 MOLA
ATOM 364 O LEU 42 27.411 -8.717 -3.616 1.00 26.42 MOLA
ATOM 365 N PRO 43 26.514 -7.048 -4.772 1.00 25.41 MOLA
ATOM 366 CD PRO 43 25.820 -5.769 -5.024 1.00 20.58 MOLA
ATOM 367 CA PRO 43 27.202 -7.531 -5.969 1.00 22.11 MOLA
ATOM 368 CB PRO 43 26.646 -6.632 -7.066 1.00 26.13 MOLA
ATOM 369 CG PRO 43 26.464 -5.319 -6.351 1.00 22.20 MOLA
ATOM 370 C PRO 43 28.709 -7.398 -5.806 1.00 25.03 MOLA
ATOM 371 O PRO 43 29.195 -6.822 -4.831 1.00 23.08 MOLA
ATOM 372 N TYR 44 29.445 -7.930 -6.768 1.00 19.58 MOLA
ATOM 373 CA TYR 44 30.890 -7.881 -6.712 1.00 20.52 MOLA
ATOM 374 CB TYR 44 31.480 -9.186 -7.249 1.00 22.80 MOLA
ATOM 375 CG TYR 44 32.963 -9.092 -7.476 1.00 24.57 MOLA
ATOM 376 CD1 TYR 44 33.859 -9.085 -6.405 1.00 28.60 MOLA
ATOM 377 CE1 TYR 44 35.225 -8.897 -6.618 1.00 23.26 MOLA
ATOM 378 CD2 TYR 44 33.472 -8.914 -8.751 1.00 28.86 MOLA
ATOM 379 CE2 TYR 44 34.839 -8.722 -8.976 1.00 26.35 MOLA
ATOM 380 CZ TYR 44 35.706 -8.712 -7.910 1.00 29.02 MOLA
ATOM 381 OH TYR 44 37.049 -8.482 -8.143 1.00 27.01 MOLA
ATOM 382 C TYR 44 31.499 -6.705 -7.489 1.00 28.67 MOLA
ATOM 383 O TYR 44 31.184 -6.489 -8.664 1.00 23.45 MOLA
ATOM 384 N TYR 45 32.361 -5.942 -6.816 1.00 26.16 MOLA
ATOM 385 CA TYR 45 33.075 -4.817 -7.450 1.00 26.38 MOLA
ATOM 386 CB TYR 45 32.614 -3.451 -6.923 1.00 28.22 MOLA
ATOM 387 CG TYR 45 31.250 -3.015 -7.388 1.00 25.77 MOLA
ATOM 388 CD1 TYR 45 30.966 -2.891 -8.741 1.00 24.63 MOLA
ATOM 389 CE1 TYR 45 29.703 -2.518 -9.175 1.00 26.51 MOLA
ATOM 390 CD2 TYR 45 30.240 -2.743 -6.466 1.00 22.11 MOLA
ATOM 391 CE2 TYR 45 28.970 -2.363 -6.873 1.00 28.55 MOLA
ATOM 392 CZ TYR 45 28.693 -2.258 -8.230 1.00 25.87 MOLA
ATOM 393 OH TYR 45 27.402 -1.955 -8.642 1.00 30.51 MOLA
ATOM 394 C TYR 45 34.544 -5.002 -7.085 1.00 28.67 MOLA
ATOM 395 O TYR 45 34.881 -5.179 -5.903 1.00 31.25 MOLA

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ATOM	396	N	SER	46	35.415	-4.957	-8.085	1.00	26.66	MOLA
ATOM	397	CA	SER	46	36.840	-5.145	-7.836	1.00	27.49	MOLA
ATOM	398	CB	SER	46	37.600	-5.265	-9.163	1.00	24.26	MOLA
ATOM	399	OG	SER	46	37.405	-4.097	-9.962	1.00	33.01	MOLA
ATOM	400	C	SER	46	37.433	-4.015	-6.999	1.00	28.73	MOLA
ATOM	401	O	SER	46	38.541	-4.131	-6.488	1.00	33.10	MOLA
ATOM	402	N	SER	47	36.685	-2.936	-6.842	1.00	29.73	MOLA
ATOM	403	CA	SER	47	37.162	-1.789	-6.075	1.00	29.16	MOLA
ATOM	404	CB	SER	47	36.600	-0.480	-6.665	1.00	33.25	MOLA
ATOM	405	OG	SER	47	36.906	-0.352	-8.056	1.00	36.00	MOLA
ATOM	406	C	SER	47	36.675	-1.950	-4.651	1.00	29.03	MOLA
ATOM	407	O	SER	47	37.132	-1.269	-3.741	1.00	31.63	MOLA
ATOM	408	N	TYR	48	35.726	-2.853	-4.475	1.00	21.87	MOLA
ATOM	409	CA	TYR	48	35.162	-3.107	-3.165	1.00	25.75	MOLA
ATOM	410	CB	TYR	48	36.280	-3.501	-2.181	1.00	24.86	MOLA
ATOM	411	CG	TYR	48	36.923	-4.826	-2.565	1.00	20.76	MOLA
ATOM	412	CD1	TYR	48	36.171	-6.027	-2.584	1.00	23.84	MOLA
ATOM	413	CE1	TYR	48	36.756	-7.250	-2.970	1.00	18.89	MOLA
ATOM	414	CD2	TYR	48	38.263	-4.890	-2.937	1.00	22.11	MOLA
ATOM	415	CE2	TYR	48	38.850	-6.089	-3.315	1.00	22.25	MOLA
ATOM	416	CZ	TYR	48	38.095	-7.273	-3.332	1.00	27.28	MOLA
ATOM	417	OH	TYR	48	38.707	-8.470	-3.712	1.00	25.78	MOLA
ATOM	418	C	TYR	48	34.333	-1.937	-2.660	1.00	26.84	MOLA
ATOM	419	O	TYR	48	34.028	-1.018	-3.430	1.00	19.99	MOLA
ATOM	420	N	TYR	49	33.947	-1.993	-1.384	1.00	27.70	MOLA
ATOM	421	CA	TYR	49	33.102	-0.968	-0.760	1.00	30.47	MOLA
ATOM	422	CB	TYR	49	31.779	-1.554	-0.276	1.00	20.62	MOLA
ATOM	423	CG	TYR	49	30.927	-2.227	-1.325	1.00	20.61	MOLA
ATOM	424	CD1	TYR	49	31.349	-3.417	-1.942	1.00	21.92	MOLA
ATOM	425	CE1	TYR	49	30.529	-4.102	-2.849	1.00	22.22	MOLA
ATOM	426	CD2	TYR	49	29.662	-1.729	-1.644	1.00	18.20	MOLA
ATOM	427	CE2	TYR	49	28.831	-2.405	-2.555	1.00	22.00	MOLA
ATOM	428	CZ	TYR	49	29.278	-3.591	-3.149	1.00	27.63	MOLA
ATOM	429	OH	TYR	49	28.483	-4.262	-4.040	1.00	24.28	MOLA
ATOM	430	C	TYR	49	33.693	-0.270	0.452	1.00	34.73	MOLA
ATOM	431	O	TYR	49	34.350	-0.914	1.290	1.00	36.43	MOLA
ATOM	432	N	TRP	50	33.402	1.034	0.559	1.00	20.90	MOLA
ATOM	433	CA	TRP	50	33.835	1.870	1.692	1.00	26.74	MOLA
ATOM	434	CB	TRP	50	33.756	3.381	1.333	1.00	23.46	MOLA
ATOM	435	CG	TRP	50	34.922	3.947	0.529	1.00	23.47	MOLA
ATOM	436	CD2	TRP	50	36.336	3.792	0.801	1.00	24.86	MOLA
ATOM	437	CE2	TRP	50	37.037	4.544	-0.177	1.00	20.38	MOLA
ATOM	438	CE3	TRP	50	37.069	3.100	1.770	1.00	20.89	MOLA
ATOM	439	CD1	TRP	50	34.835	4.756	-0.561	1.00	14.42	MOLA
ATOM	440	NE1	TRP	50	36.102	5.116	-0.997	1.00	14.95	MOLA
ATOM	441	CZ2	TRP	50	38.446	4.620	-0.210	1.00	21.58	MOLA
ATOM	442	CZ3	TRP	50	38.470	3.173	1.741	1.00	22.54	MOLA
ATOM	443	CH2	TRP	50	39.144	3.933	0.751	1.00	18.61	MOLA
ATOM	444	C	TRP	50	32.837	1.627	2.815	1.00	18.39	MOLA
ATOM	445	O	TRP	50	31.652	1.493	2.536	1.00	26.11	MOLA
ATOM	446	N	ILE	51	33.285	1.570	4.069	1.00	18.66	MOLA
ATOM	447	CA	ILE	51	32.338	1.397	5.176	1.00	24.38	MOLA
ATOM	448	CB	ILE	51	32.504	0.014	5.920	1.00	29.17	MOLA
ATOM	449	CG2	ILE	51	32.414	-1.102	4.904	1.00	27.58	MOLA
ATOM	450	CG1	ILE	51	33.840	-0.062	6.668	1.00	27.50	MOLA
ATOM	451	CD1	ILE	51	33.995	-1.302	7.579	1.00	38.67	MOLA
ATOM	452	C	ILE	51	32.515	2.559	6.162	1.00	25.92	MOLA
ATOM	453	O	ILE	51	33.570	3.206	6.201	1.00	22.95	MOLA
ATOM	454	N	GLY	52	31.488	2.813	6.966	1.00	27.84	MOLA
ATOM	455	CA	GLY	52	31.536	3.937	7.885	1.00	30.83	MOLA
ATOM	456	C	GLY	52	32.313	3.922	9.190	1.00	30.93	MOLA
ATOM	457	O	GLY	52	31.722	4.187	10.243	1.00	31.16	MOLA
ATOM	458	N	ILE	53	33.616	3.659	9.146	1.00	26.58	MOLA
ATOM	459	CA	ILE	53	34.408	3.652	10.376	1.00	23.44	MOLA
ATOM	460	CB	ILE	53	34.754	2.208	10.816	1.00	32.53	MOLA
ATOM	461	CG2	ILE	53	35.814	1.589	9.844	1.00	23.05	MOLA

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ATOM	462	CG1	ILE	53	35.286	2.222	12.250	1.00	33.94	MOLA
ATOM	463	CD1	ILE	53	35.404	0.855	12.888	1.00	40.19	MOLA
ATOM	464	C	ILE	53	35.708	4.416	10.142	1.00	27.70	MOLA
ATOM	465	O	ILE	53	36.276	4.352	9.055	1.00	22.97	MOLA
ATOM	466	N	ARG	54	36.171	5.144	11.155	1.00	27.96	MOLA
ATOM	467	CA	ARG	54	37.415	5.923	11.049	1.00	34.94	MOLA
ATOM	468	CB	ARG	54	37.117	7.396	10.749	1.00	34.53	MOLA
ATOM	469	CG	ARG	54	36.338	7.611	9.476	1.00	36.08	MOLA
ATOM	470	CD	ARG	54	37.168	7.207	8.278	1.00	34.27	MOLA
ATOM	471	NE	ARG	54	38.370	8.028	8.157	1.00	39.04	MOLA
ATOM	472	CZ	ARG	54	38.456	9.124	7.400	1.00	38.75	MOLA
ATOM	473	NH1	ARG	54	37.409	9.546	6.692	1.00	39.08	MOLA
ATOM	474	NH2	ARG	54	39.602	9.777	7.317	1.00	29.42	MOLA
ATOM	475	C	ARG	54	38.211	5.845	12.336	1.00	38.46	MOLA
ATOM	476	O	ARG	54	37.676	5.516	13.401	1.00	41.24	MOLA
ATOM	477	N	LYS	55	39.491	6.173	12.237	1.00	41.71	MOLA
ATOM	478	CA	LYS	55	40.384	6.118	13.388	1.00	51.08	MOLA
ATOM	479	CB	LYS	55	41.708	5.512	12.928	1.00	51.37	MOLA
ATOM	480	CG	LYS	55	42.684	5.111	14.011	1.00	57.13	MOLA
ATOM	481	CD	LYS	55	43.951	4.642	13.327	1.00	55.89	MOLA
ATOM	482	CE	LYS	55	45.022	4.243	14.304	1.00	60.82	MOLA
ATOM	483	NZ	LYS	55	46.340	4.281	13.595	1.00	63.48	MOLA
ATOM	484	C	LYS	55	40.611	7.496	14.033	1.00	60.02	MOLA
ATOM	485	O	LYS	55	41.361	8.316	13.507	1.00	62.06	MOLA
ATOM	486	N	ASN	56	39.945	7.747	15.161	1.00	68.17	MOLA
ATOM	487	CA	ASN	56	40.093	9.013	15.899	1.00	75.31	MOLA
ATOM	488	CB	ASN	56	38.765	9.452	16.504	1.00	75.70	MOLA
ATOM	489	CG	ASN	56	37.619	9.307	15.535	1.00	81.12	MOLA
ATOM	490	OD1	ASN	56	37.772	9.541	14.335	1.00	83.54	MOLA
ATOM	491	ND2	ASN	56	36.458	8.925	16.047	1.00	87.97	MOLA
ATOM	492	C	ASN	56	41.085	8.740	17.016	1.00	74.78	MOLA
ATOM	493	O	ASN	56	40.968	7.735	17.716	1.00	74.76	MOLA
ATOM	494	N	ASN	57	42.044	9.638	17.207	1.00	77.55	MOLA
ATOM	495	CA	ASN	57	43.065	9.396	18.218	1.00	76.80	MOLA
ATOM	496	CB	ASN	57	42.447	9.311	19.623	1.00	78.46	MOLA
ATOM	497	CG	ASN	57	41.954	10.671	20.139	1.00	77.51	MOLA
ATOM	498	OD1	ASN	57	41.418	11.523	19.343	1.00	74.24	MOLA
ATOM	499	ND2	ASN	57	42.104	10.907	21.487	1.00	72.65	MOLA
ATOM	500	C	ASN	57	43.604	8.031	17.788	1.00	74.71	MOLA
ATOM	501	O	ASN	57	44.221	7.903	16.726	1.00	75.81	MOLA
ATOM	502	N	LYS	58	43.339	7.007	18.585	1.00	69.72	MOLA
ATOM	503	CA	LYS	58	43.795	5.672	18.241	1.00	69.10	MOLA
ATOM	504	CB	LYS	58	44.959	5.267	19.145	1.00	71.42	MOLA
ATOM	505	CG	LYS	58	45.679	4.012	18.686	1.00	80.14	MOLA
ATOM	506	CD	LYS	58	46.535	3.425	19.804	1.00	82.26	MOLA
ATOM	507	CE	LYS	58	47.413	2.272	19.306	1.00	84.44	MOLA
ATOM	508	NZ	LYS	58	48.551	2.723	18.442	1.00	78.94	MOLA
ATOM	509	C	LYS	58	42.637	4.700	18.425	1.00	63.17	MOLA
ATOM	510	O	LYS	58	42.848	3.531	18.709	1.00	63.31	MOLA
ATOM	511	N	THR	59	41.415	5.193	18.252	1.00	57.56	MOLA
ATOM	512	CA	THR	59	40.216	4.382	18.437	1.00	53.47	MOLA
ATOM	513	CB	THR	59	39.391	4.874	19.675	1.00	55.47	MOLA
ATOM	514	OG1	THR	59	40.109	4.593	20.882	1.00	57.75	MOLA
ATOM	515	CG2	THR	59	38.026	4.193	19.726	1.00	42.54	MOLA
ATOM	516	C	THR	59	39.271	4.365	17.240	1.00	50.51	MOLA
ATOM	517	O	THR	59	38.678	5.392	16.893	1.00	53.65	MOLA
ATOM	518	N	TRP	60	39.105	3.188	16.639	1.00	45.40	MOLA
ATOM	519	CA	TRP	60	38.205	3.035	15.503	1.00	38.34	MOLA
ATOM	520	CB	TRP	60	38.323	1.639	14.877	1.00	37.10	MOLA
ATOM	521	CG	TRP	60	39.646	1.418	14.244	1.00	27.40	MOLA
ATOM	522	CD2	TRP	60	40.076	1.896	12.954	1.00	28.56	MOLA
ATOM	523	CE2	TRP	60	41.439	1.546	12.812	1.00	17.00	MOLA
ATOM	524	CE3	TRP	60	39.435	2.587	11.905	1.00	22.48	MOLA
ATOM	525	CD1	TRP	60	40.723	0.818	14.804	1.00	24.77	MOLA
ATOM	526	NE1	TRP	60	41.808	0.886	13.950	1.00	30.05	MOLA
ATOM	527	CZ2	TRP	60	42.178	1.861	11.674	1.00	17.66	MOLA

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ATOM	528	CZ3	TRP	60	40.158	2.893	10.773	1.00 15.71	MOLA
ATOM	529	CH2	TRP	60	41.525	2.528	10.663	1.00 27.56	MOLA
ATOM	530	C	TRP	60	36.782	3.268	15.956	1.00 33.88	MOLA
ATOM	531	O	TRP	60	36.299	2.614	16.872	1.00 32.87	MOLA
ATOM	532	N	THR	61	36.112	4.212	15.305	1.00 32.81	MOLA
ATOM	533	CA	THR	61	34.742	4.537	15.654	1.00 30.76	MOLA
ATOM	534	CB	THR	61	34.699	5.904	16.389	1.00 30.41	MOLA
ATOM	535	OG1	THR	61	35.586	5.866	17.516	1.00 42.17	MOLA
ATOM	536	CG2	THR	61	33.292	6.236	16.850	1.00 25.25	MOLA
ATOM	537	C	THR	61	33.871	4.603	14.398	1.00 31.57	MOLA
ATOM	538	O	THR	61	34.329	5.034	13.340	1.00 38.33	MOLA
ATOM	539	N	TRP	62	32.627	4.161	14.515	1.00 29.23	MOLA
ATOM	540	CA	TRP	62	31.678	4.201	13.400	1.00 37.77	MOLA
ATOM	541	CB	TRP	62	30.528	3.214	13.644	1.00 35.43	MOLA
ATOM	542	CG	TRP	62	31.006	1.791	13.801	1.00 39.53	MOLA
ATOM	543	CD2	TRP	62	31.433	0.920	12.752	1.00 36.27	MOLA
ATOM	544	CE2	TRP	62	31.871	-0.279	13.352	1.00 37.29	MOLA
ATOM	545	CE3	TRP	62	31.491	1.041	11.360	1.00 37.83	MOLA
ATOM	546	CD1	TRP	62	31.189	1.101	14.967	1.00 38.63	MOLA
ATOM	547	NE1	TRP	62	31.714	-0.147	14.705	1.00 36.93	MOLA
ATOM	548	CZ2	TRP	62	32.361	-1.343	12.610	1.00 33.74	MOLA
ATOM	549	CZ3	TRP	62	31.978	-0.018	10.624	1.00 35.03	MOLA
ATOM	550	CH2	TRP	62	32.408	-1.197	11.250	1.00 33.94	MOLA
ATOM	551	C	TRP	62	31.135	5.635	13.302	1.00 42.58	MOLA
ATOM	552	O	TRP	62	30.572	6.164	14.260	1.00 43.94	MOLA
ATOM	553	N	VAL	63	31.291	6.258	12.142	1.00 42.01	MOLA
ATOM	554	CA	VAL	63	30.865	7.639	11.978	1.00 36.37	MOLA
ATOM	555	CB	VAL	63	31.380	8.221	10.651	1.00 25.14	MOLA
ATOM	556	CG1	VAL	63	32.869	8.001	10.541	1.00 31.28	MOLA
ATOM	557	CG2	VAL	63	30.651	7.582	9.491	1.00 21.65	MOLA
ATOM	558	C	VAL	63	29.362	7.876	12.061	1.00 38.88	MOLA
ATOM	559	O	VAL	63	28.927	8.951	12.472	1.00 37.03	MOLA
ATOM	560	N	GLY	64	28.562	6.882	11.702	1.00 37.05	MOLA
ATOM	561	CA	GLY	64	27.123	7.088	11.742	1.00 41.94	MOLA
ATOM	562	C	GLY	64	26.437	6.897	13.084	1.00 44.46	MOLA
ATOM	563	O	GLY	64	25.355	7.440	13.328	1.00 44.39	MOLA
ATOM	564	N	THR	65	27.064	6.131	13.964	1.00 43.46	MOLA
ATOM	565	CA	THR	65	26.476	5.830	15.256	1.00 37.93	MOLA
ATOM	566	CB	THR	65	26.396	4.316	15.458	1.00 38.12	MOLA
ATOM	567	OG1	THR	65	27.720	3.780	15.347	1.00 35.35	MOLA
ATOM	568	CG2	THR	65	25.498	3.656	14.419	1.00 23.13	MOLA
ATOM	569	C	THR	65	27.341	6.381	16.373	1.00 42.88	MOLA
ATOM	570	O	THR	65	26.896	6.472	17.522	1.00 45.69	MOLA
ATOM	571	N	LYS	66	28.580	6.721	16.031	1.00 36.88	MOLA
ATOM	572	CA	LYS	66	29.535	7.240	16.994	1.00 49.88	MOLA
ATOM	573	CB	LYS	66	28.956	8.431	17.770	1.00 55.64	MOLA
ATOM	574	CG	LYS	66	29.379	9.802	17.272	1.00 60.79	MOLA
ATOM	575	CD	LYS	66	28.843	10.110	15.883	1.00 65.27	MOLA
ATOM	576	CE	LYS	66	29.334	11.480	15.404	1.00 67.09	MOLA
ATOM	577	NZ	LYS	66	29.055	11.678	13.949	1.00 63.75	MOLA
ATOM	578	C	LYS	66	29.950	6.159	17.984	1.00 52.98	MOLA
ATOM	579	O	LYS	66	30.528	6.476	19.023	1.00 60.03	MOLA
ATOM	580	N	LYS	67	29.662	4.890	17.694	1.00 49.55	MOLA
ATOM	581	CA	LYS	67	30.068	3.832	18.623	1.00 44.24	MOLA
ATOM	582	CB	LYS	67	29.119	2.630	18.561	1.00 40.90	MOLA
ATOM	583	CG	LYS	67	27.671	2.900	18.940	1.00 39.81	MOLA
ATOM	584	CD	LYS	67	26.906	1.583	18.960	1.00 38.72	MOLA
ATOM	585	CE	LYS	67	25.391	1.769	19.141	1.00 44.00	MOLA
ATOM	586	NZ	LYS	67	25.007	2.283	20.480	1.00 54.10	MOLA
ATOM	587	C	LYS	67	31.497	3.344	18.356	1.00 41.53	MOLA
ATOM	588	O	LYS	67	31.955	3.297	17.215	1.00 41.01	MOLA
ATOM	589	N	ALA	68	32.199	2.988	19.421	1.00 34.86	MOLA
ATOM	590	CA	ALA	68	33.551	2.479	19.310	1.00 31.87	MOLA
ATOM	591	CB	ALA	68	34.182	2.457	20.683	1.00 27.72	MOLA
ATOM	592	C	ALA	68	33.474	1.049	18.750	1.00 33.70	MOLA
ATOM	593	O	ALA	68	32.459	0.372	18.925	1.00 36.32	MOLA

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ATOM    594  N   LEU    69      34.540   0.594  18.095  1.00 30.49      MOLA
ATOM    595  CA  LEU    69      34.595  -0.763  17.537  1.00 38.20      MOLA
ATOM    596  CB  LEU    69      35.831  -0.926  16.640  1.00 31.88      MOLA
ATOM    597  CG  LEU    69      36.128  -2.277  15.955  1.00 30.10      MOLA
ATOM    598  CD1 LEU    69      35.080  -2.653  14.929  1.00 25.79      MOLA
ATOM    599  CD2 LEU    69      37.467  -2.165  15.256  1.00 27.50      MOLA
ATOM    600  C   LEU    69      34.655  -1.815  18.650  1.00 40.29      MOLA
ATOM    601  O   LEU    69      35.369  -1.645  19.646  1.00 44.18      MOLA
ATOM    602  N   THR    70      33.909  -2.900  18.470  1.00 40.00      MOLA
ATOM    603  CA  THR    70      33.875  -3.992  19.440  1.00 41.55      MOLA
ATOM    604  CB  THR    70      32.445  -4.360  19.817  1.00 42.77      MOLA
ATOM    605  OG1 THR    70      31.795  -4.911  18.668  1.00 37.69      MOLA
ATOM    606  CG2 THR    70      31.683  -3.148  20.306  1.00 36.58      MOLA
ATOM    607  C   THR    70      34.477  -5.244  18.807  1.00 46.46      MOLA
ATOM    608  O   THR    70      34.574  -5.324  17.577  1.00 46.30      MOLA
ATOM    609  N   ASN    71      34.863  -6.222  19.633  1.00 45.43      MOLA
ATOM    610  CA  ASN    71      35.416  -7.482  19.122  1.00 45.69      MOLA
ATOM    611  CB  ASN    71      35.880  -8.361  20.263  1.00 46.38      MOLA
ATOM    612  CG  ASN    71      37.009  -7.742  21.021  1.00 51.79      MOLA
ATOM    613  OD1 ASN    71      38.078  -7.487  20.452  1.00 48.03      MOLA
ATOM    614  ND2 ASN    71      36.787  -7.474  22.313  1.00 47.42      MOLA
ATOM    615  C   ASN    71      34.392  -8.253  18.291  1.00 41.86      MOLA
ATOM    616  O   ASN    71      34.760  -8.937  17.349  1.00 38.82      MOLA
ATOM    617  N   GLU    72      33.115  -8.150  18.656  1.00 36.32      MOLA
ATOM    618  CA  GLU    72      32.054  -8.809  17.907  1.00 43.09      MOLA
ATOM    619  CB  GLU    72      30.683  -8.531  18.545  1.00 47.47      MOLA
ATOM    620  CG  GLU    72      30.417  -9.218  19.868  1.00 52.34      MOLA
ATOM    621  CD  GLU    72      31.404  -8.815  20.945  1.00 67.08      MOLA
ATOM    622  OE1 GLU    72      31.642  -7.595  21.131  1.00 66.82      MOLA
ATOM    623  OE2 GLU    72      31.936  -9.727  21.616  1.00 70.05      MOLA
ATOM    624  C   GLU    72      32.027  -8.318  16.444  1.00 43.07      MOLA
ATOM    625  O   GLU    72      31.868  -9.115  15.519  1.00 44.78      MOLA
ATOM    626  N   ALA    73      32.187  -7.009  16.242  1.00 39.83      MOLA
ATOM    627  CA  ALA    73      32.153  -6.427  14.900  1.00 33.02      MOLA
ATOM    628  CB  ALA    73      31.568  -4.998  14.959  1.00 45.43      MOLA
ATOM    629  C   ALA    73      33.495  -6.391  14.192  1.00 33.08      MOLA
ATOM    630  O   ALA    73      33.552  -6.388  12.963  1.00 32.47      MOLA
ATOM    631  N   GLU    74      34.576  -6.362  14.950  1.00 28.10      MOLA
ATOM    632  CA  GLU    74      35.889  -6.280  14.344  1.00 24.31      MOLA
ATOM    633  CB  GLU    74      36.950  -6.292  15.441  1.00 29.08      MOLA
ATOM    634  CG  GLU    74      38.379  -6.229  14.928  1.00 34.43      MOLA
ATOM    635  CD  GLU    74      38.939  -7.602  14.623  1.00 34.56      MOLA
ATOM    636  OE1 GLU    74      38.862  -8.483  15.520  1.00 43.26      MOLA
ATOM    637  OE2 GLU    74      39.464  -7.794  13.502  1.00 34.63      MOLA
ATOM    638  C   GLU    74      36.154  -7.399  13.346  1.00 34.64      MOLA
ATOM    639  O   GLU    74      36.035  -8.573  13.687  1.00 26.60      MOLA
ATOM    640  N   ASN    75      36.527  -7.039  12.116  1.00 36.45      MOLA
ATOM    641  CA  ASN    75      36.785  -8.056  11.100  1.00 28.43      MOLA
ATOM    642  CB  ASN    75      35.518  -8.305  10.270  1.00 29.46      MOLA
ATOM    643  CG  ASN    75      35.478  -9.722   9.673  1.00 34.48      MOLA
ATOM    644  OD1 ASN    75      35.673 -10.700  10.390  1.00 34.05      MOLA
ATOM    645  ND2 ASN    75      35.217  -9.827   8.366  1.00 27.29      MOLA
ATOM    646  C   ASN    75      37.936  -7.754  10.165  1.00 26.33      MOLA
ATOM    647  O   ASN    75      37.790  -7.884   8.945  1.00 29.74      MOLA
ATOM    648  N   TRP    76      39.079  -7.354  10.722  1.00 26.62      MOLA
ATOM    649  CA  TRP    76      40.253  -7.038   9.913  1.00 29.46      MOLA
ATOM    650  CB  TRP    76      41.415  -6.466  10.775  1.00 30.46      MOLA
ATOM    651  CG  TRP    76      41.125  -5.169  11.505  1.00 30.60      MOLA
ATOM    652  CD2 TRP    76      40.906  -3.882  10.913  1.00 33.20      MOLA
ATOM    653  CE2 TRP    76      40.523  -3.007  11.952  1.00 31.38      MOLA
ATOM    654  CE3 TRP    76      40.991  -3.386   9.599  1.00 26.47      MOLA
ATOM    655  CD1 TRP    76      40.892  -5.018  12.838  1.00 32.65      MOLA
ATOM    656  NE1 TRP    76      40.524  -3.728  13.115  1.00 35.64      MOLA
ATOM    657  CZ2 TRP    76      40.218  -1.658  11.724  1.00 40.36      MOLA
ATOM    658  CZ3 TRP    76      40.691  -2.054   9.370  1.00 37.14      MOLA
ATOM    659  CH2 TRP    76      40.307  -1.198  10.428  1.00 33.12      MOLA
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ATOM	660	C	TRP	76	40.805	-8.240	9.150	1.00 27.45	MOLA
ATOM	661	O	TRP	76	40.915	-9.341	9.685	1.00 30.31	MOLA
ATOM	662	N	ALA	77	41.124	-8.008	7.888	1.00 23.53	MOLA
ATOM	663	CA	ALA	77	41.769	-8.990	7.060	1.00 23.27	MOLA
ATOM	664	CB	ALA	77	41.978	-8.428	5.697	1.00 22.56	MOLA
ATOM	665	C	ALA	77	43.135	-9.197	7.727	1.00 33.70	MOLA
ATOM	666	O	ALA	77	43.586	-8.355	8.499	1.00 34.45	MOLA
ATOM	667	N	ASP	78	43.802	-10.302	7.420	1.00 36.47	MOLA
ATOM	668	CA	ASP	78	45.114	-10.582	8.000	1.00 34.68	MOLA
ATOM	669	CB	ASP	78	45.752	-11.813	7.331	1.00 34.66	MOLA
ATOM	670	CG	ASP	78	45.062	-13.130	7.712	1.00 35.24	MOLA
ATOM	671	OD1	ASP	78	45.247	-14.123	6.969	1.00 36.28	MOLA
ATOM	672	OD2	ASP	78	44.359	-13.177	8.749	1.00 32.14	MOLA
ATOM	673	C	ASP	78	46.064	-9.398	7.830	1.00 37.87	MOLA
ATOM	674	O	ASP	78	46.121	-8.767	6.754	1.00 36.95	MOLA
ATOM	675	N	ASN	79	46.809	-9.113	8.898	1.00 38.90	MOLA
ATOM	676	CA	ASN	79	47.802	-8.036	8.916	1.00 41.16	MOLA
ATOM	677	CB	ASN	79	48.886	-8.292	7.866	1.00 40.79	MOLA
ATOM	678	CG	ASN	79	49.472	-9.679	7.970	1.00 47.11	MOLA
ATOM	679	OD1	ASN	79	49.658	-10.364	6.964	1.00 48.60	MOLA
ATOM	680	ND2	ASN	79	49.768	-10.103	9.192	1.00 43.13	MOLA
ATOM	681	C	ASN	79	47.235	-6.653	8.681	1.00 40.08	MOLA
ATOM	682	O	ASN	79	47.968	-5.760	8.263	1.00 40.08	MOLA
ATOM	683	N	GLU	80	45.939	-6.482	8.914	1.00 33.46	MOLA
ATOM	684	CA	GLU	80	45.324	-5.183	8.741	1.00 34.81	MOLA
ATOM	685	CB	GLU	80	44.165	-5.249	7.729	1.00 36.64	MOLA
ATOM	686	CG	GLU	80	44.539	-5.652	6.301	1.00 36.12	MOLA
ATOM	687	CD	GLU	80	45.620	-4.781	5.693	1.00 40.12	MOLA
ATOM	688	OE1	GLU	80	45.840	-3.658	6.192	1.00 40.59	MOLA
ATOM	689	OE2	GLU	80	46.248	-5.213	4.700	1.00 32.77	MOLA
ATOM	690	C	GLU	80	44.791	-4.757	10.109	1.00 33.31	MOLA
ATOM	691	O	GLU	80	44.508	-5.597	10.946	1.00 30.09	MOLA
ATOM	692	N	PRO	81	44.720	-3.444	10.379	1.00 34.25	MOLA
ATOM	693	CD	PRO	81	44.021	-2.917	11.569	1.00 35.34	MOLA
ATOM	694	CA	PRO	81	45.121	-2.362	9.478	1.00 30.08	MOLA
ATOM	695	CB	PRO	81	44.357	-1.165	10.026	1.00 39.47	MOLA
ATOM	696	CG	PRO	81	44.364	-1.442	11.524	1.00 37.61	MOLA
ATOM	697	C	PRO	81	46.640	-2.186	9.567	1.00 35.03	MOLA
ATOM	698	O	PRO	81	47.234	-2.495	10.599	1.00 38.22	MOLA
ATOM	699	N	ASN	82	47.251	-1.695	8.487	1.00 37.13	MOLA
ATOM	700	CA	ASN	82	48.699	-1.475	8.406	1.00 37.25	MOLA
ATOM	701	CB	ASN	82	49.335	-2.492	7.447	1.00 31.24	MOLA
ATOM	702	CG	ASN	82	48.817	-2.352	6.027	1.00 31.70	MOLA
ATOM	703	OD1	ASN	82	47.865	-1.626	5.781	1.00 35.95	MOLA
ATOM	704	ND2	ASN	82	49.433	-3.055	5.095	1.00 34.22	MOLA
ATOM	705	C	ASN	82	49.091	-0.059	7.943	1.00 39.98	MOLA
ATOM	706	O	ASN	82	50.193	0.135	7.421	1.00 40.47	MOLA
ATOM	707	N	ASN	83	48.205	0.922	8.105	1.00 38.59	MOLA
ATOM	708	CA	ASN	83	48.536	2.295	7.704	1.00 46.43	MOLA
ATOM	709	CB	ASN	83	47.462	2.892	6.802	1.00 36.28	MOLA
ATOM	710	CG	ASN	83	47.416	2.231	5.450	1.00 42.91	MOLA
ATOM	711	OD1	ASN	83	48.449	1.863	4.893	1.00 36.35	MOLA
ATOM	712	ND2	ASN	83	46.216	2.091	4.902	1.00 38.57	MOLA
ATOM	713	C	ASN	83	48.726	3.233	8.893	1.00 51.29	MOLA
ATOM	714	O	ASN	83	48.079	3.084	9.933	1.00 52.94	MOLA
ATOM	715	N	LYS	84	49.603	4.217	8.733	1.00 53.11	MOLA
ATOM	716	CA	LYS	84	49.848	5.170	9.817	1.00 55.79	MOLA
ATOM	717	CB	LYS	84	51.313	5.096	10.247	1.00 54.60	MOLA
ATOM	718	CG	LYS	84	52.258	5.367	9.100	1.00 59.23	MOLA
ATOM	719	CD	LYS	84	53.685	5.389	9.577	1.00 65.15	MOLA
ATOM	720	CE	LYS	84	54.608	5.850	8.469	1.00 58.36	MOLA
ATOM	721	NZ	LYS	84	55.921	6.151	9.061	1.00 53.73	MOLA
ATOM	722	C	LYS	84	49.506	6.614	9.440	1.00 51.92	MOLA
ATOM	723	O	LYS	84	49.026	7.384	10.281	1.00 48.73	MOLA
ATOM	724	N	ARG	85	49.759	6.964	8.179	1.00 48.88	MOLA
ATOM	725	CA	ARG	85	49.527	8.310	7.674	1.00 43.23	MOLA

ATOM	726	CB	ARG	85	50.070	8.417	6.250	1.00	43.49	MOLA
ATOM	727	CG	ARG	85	51.545	7.990	6.144	1.00	46.05	MOLA
ATOM	728	CD	ARG	85	51.971	7.749	4.693	1.00	56.21	MOLA
ATOM	729	NE	ARG	85	53.359	7.280	4.564	1.00	68.02	MOLA
ATOM	730	CZ	ARG	85	54.381	8.042	4.155	1.00	74.30	MOLA
ATOM	731	NH1	ARG	85	54.183	9.320	3.830	1.00	73.23	MOLA
ATOM	732	NH2	ARG	85	55.607	7.530	4.065	1.00	71.30	MOLA
ATOM	733	C	ARG	85	48.058	8.713	7.725	1.00	45.25	MOLA
ATOM	734	O	ARG	85	47.148	7.868	7.637	1.00	38.95	MOLA
ATOM	735	N	ASN	86	47.821	10.006	7.901	1.00	39.29	MOLA
ATOM	736	CA	ASN	86	46.454	10.483	7.953	1.00	40.16	MOLA
ATOM	737	CB	ASN	86	46.404	11.911	8.499	1.00	41.99	MOLA
ATOM	738	CG	ASN	86	46.027	12.939	7.454	1.00	53.00	MOLA
ATOM	739	OD1	ASN	86	44.842	13.253	7.260	1.00	52.65	MOLA
ATOM	740	ND2	ASN	86	47.039	13.477	6.771	1.00	45.19	MOLA
ATOM	741	C	ASN	86	45.889	10.384	6.546	1.00	38.02	MOLA
ATOM	742	O	ASN	86	46.633	10.306	5.551	1.00	31.26	MOLA
ATOM	743	N	ASN	87	44.567	10.349	6.479	1.00	40.57	MOLA
ATOM	744	CA	ASN	87	43.863	10.222	5.209	1.00	43.46	MOLA
ATOM	745	CB	ASN	87	44.304	11.338	4.232	1.00	30.93	MOLA
ATOM	746	CG	ASN	87	43.235	11.667	3.203	1.00	39.30	MOLA
ATOM	747	OD1	ASN	87	42.031	11.567	3.486	1.00	39.20	MOLA
ATOM	748	ND2	ASN	87	43.661	12.086	2.006	1.00	32.78	MOLA
ATOM	749	C	ASN	87	44.114	8.800	4.629	1.00	40.98	MOLA
ATOM	750	O	ASN	87	43.826	8.550	3.458	1.00	43.63	MOLA
ATOM	751	N	GLU	88	44.660	7.889	5.456	1.00	35.45	MOLA
ATOM	752	CA	GLU	88	44.875	6.486	5.056	1.00	33.21	MOLA
ATOM	753	CB	GLU	88	46.364	6.107	5.031	1.00	32.51	MOLA
ATOM	754	CG	GLU	88	47.188	6.804	3.965	1.00	36.09	MOLA
ATOM	755	CD	GLU	88	48.473	6.068	3.680	1.00	45.85	MOLA
ATOM	756	OE1	GLU	88	48.930	5.291	4.552	1.00	46.55	MOLA
ATOM	757	OE2	GLU	88	49.036	6.275	2.588	1.00	55.10	MOLA
ATOM	758	C	GLU	88	44.132	5.534	6.021	1.00	34.44	MOLA
ATOM	759	O	GLU	88	44.329	4.301	5.992	1.00	31.96	MOLA
ATOM	760	N	ASP	89	43.291	6.117	6.875	1.00	28.70	MOLA
ATOM	761	CA	ASP	89	42.486	5.361	7.836	1.00	32.36	MOLA
ATOM	762	CB	ASP	89	42.421	6.104	9.185	1.00	32.87	MOLA
ATOM	763	CG	ASP	89	41.547	7.340	9.114	1.00	36.18	MOLA
ATOM	764	OD1	ASP	89	41.724	8.119	8.162	1.00	35.04	MOLA
ATOM	765	OD2	ASP	89	40.679	7.531	9.990	1.00	36.08	MOLA
ATOM	766	C	ASP	89	41.056	5.104	7.316	1.00	27.39	MOLA
ATOM	767	O	ASP	89	40.133	4.930	8.103	1.00	29.77	MOLA
ATOM	768	N	CYS	90	40.852	5.128	5.999	1.00	29.41	MOLA
ATOM	769	CA	CYS	90	39.529	4.786	5.459	1.00	28.27	MOLA
ATOM	770	C	CYS	90	39.515	3.242	5.302	1.00	31.64	MOLA
ATOM	771	O	CYS	90	40.547	2.625	5.002	1.00	27.91	MOLA
ATOM	772	CB	CYS	90	39.255	5.512	4.129	1.00	34.40	MOLA
ATOM	773	SG	CYS	90	38.845	7.265	4.458	1.00	38.30	MOLA
ATOM	774	N	VAL	91	38.358	2.628	5.528	1.00	30.72	MOLA
ATOM	775	CA	VAL	91	38.248	1.178	5.500	1.00	26.42	MOLA
ATOM	776	CB	VAL	91	37.794	0.667	6.878	1.00	32.89	MOLA
ATOM	777	CG1	VAL	91	37.782	-0.863	6.896	1.00	27.46	MOLA
ATOM	778	CG2	VAL	91	38.704	1.232	7.970	1.00	30.35	MOLA
ATOM	779	C	VAL	91	37.306	0.589	4.467	1.00	25.33	MOLA
ATOM	780	O	VAL	91	36.117	0.886	4.470	1.00	27.59	MOLA
ATOM	781	N	GLU	92	37.846	-0.246	3.591	1.00	21.53	MOLA
ATOM	782	CA	GLU	92	37.053	-0.929	2.574	1.00	24.35	MOLA
ATOM	783	CB	GLU	92	37.870	-1.107	1.284	1.00	26.41	MOLA
ATOM	784	CG	GLU	92	39.036	-2.103	1.367	1.00	23.56	MOLA
ATOM	785	CD	GLU	92	39.786	-2.216	0.041	1.00	30.84	MOLA
ATOM	786	OE1	GLU	92	39.133	-2.147	-1.024	1.00	29.28	MOLA
ATOM	787	OE2	GLU	92	41.022	-2.379	0.047	1.00	27.45	MOLA
ATOM	788	C	GLU	92	36.669	-2.318	3.106	1.00	25.79	MOLA
ATOM	789	O	GLU	92	37.364	-2.870	3.962	1.00	27.23	MOLA
ATOM	790	N	ILE	93	35.546	-2.861	2.646	1.00	26.39	MOLA
ATOM	791	CA	ILE	93	35.159	-4.214	3.039	1.00	21.43	MOLA

ATOM	792	CB	ILE	93	33.756	-4.295	3.612	1.00 26.68	MOLA
ATOM	793	CG2	ILE	93	32.733	-3.770	2.621	1.00 26.90	MOLA
ATOM	794	CG1	ILE	93	33.465	-5.766	3.989	1.00 23.12	MOLA
ATOM	795	CD1	ILE	93	32.257	-5.923	4.897	1.00 16.37	MOLA
ATOM	796	C	ILE	93	35.249	-5.059	1.766	1.00 27.35	MOLA
ATOM	797	O	ILE	93	34.746	-4.650	0.708	1.00 22.18	MOLA
ATOM	798	N	TYR	94	35.912	-6.216	1.866	1.00 23.24	MOLA
ATOM	799	CA	TYR	94	36.133	-7.090	0.701	1.00 26.76	MOLA
ATOM	800	CB	TYR	94	37.340	-8.012	0.946	1.00 22.06	MOLA
ATOM	801	CG	TYR	94	38.677	-7.330	1.096	1.00 27.02	MOLA
ATOM	802	CD1	TYR	94	39.093	-6.354	0.177	1.00 28.00	MOLA
ATOM	803	CE1	TYR	94	40.391	-5.842	0.201	1.00 29.63	MOLA
ATOM	804	CD2	TYR	94	39.594	-7.759	2.062	1.00 25.00	MOLA
ATOM	805	CE2	TYR	94	40.919	-7.256	2.095	1.00 30.78	MOLA
ATOM	806	CZ	TYR	94	41.308	-6.306	1.151	1.00 33.14	MOLA
ATOM	807	OH	TYR	94	42.616	-5.892	1.071	1.00 21.58	MOLA
ATOM	808	C	TYR	94	34.938	-7.957	0.309	1.00 30.48	MOLA
ATOM	809	O	TYR	94	35.013	-9.186	0.389	1.00 30.47	MOLA
ATOM	810	N	ILE	95	33.843	-7.334	-0.118	1.00 24.05	MOLA
ATOM	811	CA	ILE	95	32.680	-8.093	-0.527	1.00 22.93	MOLA
ATOM	812	CB	ILE	95	31.530	-7.142	-1.021	1.00 20.17	MOLA
ATOM	813	CG2	ILE	95	30.339	-7.949	-1.492	1.00 23.57	MOLA
ATOM	814	CG1	ILE	95	31.081	-6.204	0.100	1.00 13.68	MOLA
ATOM	815	CD1	ILE	95	30.435	-6.853	1.300	1.00 21.87	MOLA
ATOM	816	C	ILE	95	33.055	-9.088	-1.667	1.00 22.50	MOLA
ATOM	817	O	ILE	95	33.605	-8.704	-2.704	1.00 19.84	MOLA
ATOM	818	N	LYS	96	32.752	-10.362	-1.440	1.00 22.60	MOLA
ATOM	819	CA	LYS	96	32.986	-11.445	-2.399	1.00 21.82	MOLA
ATOM	820	CB	LYS	96	32.012	-11.324	-3.579	1.00 13.95	MOLA
ATOM	821	CG	LYS	96	30.554	-11.575	-3.200	1.00 22.08	MOLA
ATOM	822	CD	LYS	96	29.581	-11.282	-4.393	1.00 18.00	MOLA
ATOM	823	CE	LYS	96	28.251	-11.992	-4.198	1.00 10.14	MOLA
ATOM	824	NZ	LYS	96	27.519	-11.520	-2.974	1.00 13.40	MOLA
ATOM	825	C	LYS	96	34.413	-11.565	-2.897	1.00 21.00	MOLA
ATOM	826	O	LYS	96	34.677	-11.958	-4.032	1.00 20.56	MOLA
ATOM	827	N	SER	97	35.341	-11.197	-2.036	1.00 22.23	MOLA
ATOM	828	CA	SER	97	36.739	-11.336	-2.379	1.00 25.13	MOLA
ATOM	829	CB	SER	97	37.619	-10.609	-1.370	1.00 25.81	MOLA
ATOM	830	OG	SER	97	38.952	-11.088	-1.461	1.00 26.22	MOLA
ATOM	831	C	SER	97	37.060	-12.827	-2.290	1.00 22.18	MOLA
ATOM	832	O	SER	97	36.616	-13.507	-1.369	1.00 18.54	MOLA
ATOM	833	N	PRO	98	37.833	-13.346	-3.243	1.00 24.06	MOLA
ATOM	834	CD	PRO	98	38.298	-12.760	-4.515	1.00 22.24	MOLA
ATOM	835	CA	PRO	98	38.145	-14.784	-3.138	1.00 29.93	MOLA
ATOM	836	CB	PRO	98	38.648	-15.147	-4.531	1.00 21.88	MOLA
ATOM	837	CG	PRO	98	39.293	-13.805	-5.008	1.00 30.12	MOLA
ATOM	838	C	PRO	98	39.177	-15.094	-2.041	1.00 30.25	MOLA
ATOM	839	O	PRO	98	39.194	-16.193	-1.500	1.00 31.17	MOLA
ATOM	840	N	SER	99	40.022	-14.127	-1.691	1.00 34.86	MOLA
ATOM	841	CA	SER	99	41.028	-14.384	-0.662	1.00 39.88	MOLA
ATOM	842	CB	SER	99	42.347	-13.670	-1.003	1.00 39.63	MOLA
ATOM	843	OG	SER	99	42.138	-12.344	-1.427	1.00 42.80	MOLA
ATOM	844	C	SER	99	40.618	-14.070	0.773	1.00 40.24	MOLA
ATOM	845	O	SER	99	41.047	-14.761	1.696	1.00 39.93	MOLA
ATOM	846	N	ALA	100	39.763	-13.066	0.967	1.00 39.43	MOLA
ATOM	847	CA	ALA	100	39.351	-12.684	2.316	1.00 27.74	MOLA
ATOM	848	CB	ALA	100	40.350	-11.675	2.869	1.00 29.29	MOLA
ATOM	849	C	ALA	100	37.938	-12.099	2.337	1.00 31.75	MOLA
ATOM	850	O	ALA	100	37.726	-10.923	2.669	1.00 28.42	MOLA
ATOM	851	N	PRO	101	36.936	-12.926	2.020	1.00 30.76	MOLA
ATOM	852	CD	PRO	101	37.019	-14.314	1.533	1.00 27.20	MOLA
ATOM	853	CA	PRO	101	35.552	-12.431	2.008	1.00 26.55	MOLA
ATOM	854	CB	PRO	101	34.736	-13.674	1.623	1.00 34.99	MOLA
ATOM	855	CG	PRO	101	35.677	-14.843	1.908	1.00 30.28	MOLA
ATOM	856	C	PRO	101	35.048	-11.740	3.268	1.00 26.69	MOLA
ATOM	857	O	PRO	101	35.203	-12.249	4.377	1.00 27.94	MOLA

PDB entry 1GJ5 coordinates.

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ATOM    858  N   GLY   102      34.445 -10.563   3.072  1.00 26.37      MOLA
ATOM    859  CA  GLY   102      33.892  -9.780   4.174  1.00 17.07      MOLA
ATOM    860  C   GLY   102      34.879  -9.165   5.160  1.00 19.09      MOLA
ATOM    861  O   GLY   102      34.461  -8.539   6.123  1.00 18.43      MOLA
ATOM    862  N   LYS   103      36.174  -9.365   4.922  1.00 20.71      MOLA
ATOM    863  CA  LYS   103      37.252  -8.853   5.773  1.00 30.44      MOLA
ATOM    864  CB  LYS   103      38.522  -9.681   5.494  1.00 33.88      MOLA
ATOM    865  CG  LYS   103      38.919 -10.674   6.603  1.00 35.05      MOLA
ATOM    866  CD  LYS   103      37.775 -11.540   7.024  1.00 38.60      MOLA
ATOM    867  CE  LYS   103      38.127 -12.352   8.265  1.00 35.68      MOLA
ATOM    868  NZ  LYS   103      39.268 -13.262   8.048  1.00 30.86      MOLA
ATOM    869  C   LYS   103      37.510  -7.334   5.523  1.00 30.80      MOLA
ATOM    870  O   LYS   103      37.115  -6.785   4.483  1.00 28.12      MOLA
ATOM    871  N   TRP   104      38.172  -6.661   6.459  1.00 27.14      MOLA
ATOM    872  CA  TRP   104      38.428  -5.213   6.310  1.00 24.77      MOLA
ATOM    873  CB  TRP   104      37.972  -4.418   7.551  1.00 21.53      MOLA
ATOM    874  CG  TRP   104      36.565  -4.645   8.003  1.00 18.71      MOLA
ATOM    875  CD2 TRP   104      36.022  -4.343   9.298  1.00 22.96      MOLA
ATOM    876  CE2 TRP   104      34.679  -4.816   9.318  1.00 17.87      MOLA
ATOM    877  CE3 TRP   104      36.538  -3.725  10.447  1.00 19.66      MOLA
ATOM    878  CD1 TRP   104      35.553  -5.261   7.301  1.00 25.50      MOLA
ATOM    879  NE1 TRP   104      34.417  -5.369   8.091  1.00 24.09      MOLA
ATOM    880  CZ2 TRP   104      33.856  -4.691  10.447  1.00 19.44      MOLA
ATOM    881  CZ3 TRP   104      35.726  -3.609  11.556  1.00 16.40      MOLA
ATOM    882  CH2 TRP   104      34.401  -4.089  11.556  1.00 23.01      MOLA
ATOM    883  C   TRP   104      39.873  -4.837   6.049  1.00 25.62      MOLA
ATOM    884  O   TRP   104      40.816  -5.467   6.543  1.00 26.57      MOLA
ATOM    885  N   ASN   105      40.047  -3.778   5.269  1.00 30.80      MOLA
ATOM    886  CA  ASN   105      41.374  -3.294   4.971  1.00 28.04      MOLA
ATOM    887  CB  ASN   105      41.839  -3.791   3.620  1.00 27.26      MOLA
ATOM    888  CG  ASN   105      43.047  -3.013   3.114  1.00 34.12      MOLA
ATOM    889  OD1 ASN   105      44.093  -3.021   3.750  1.00 30.89      MOLA
ATOM    890  ND2 ASN   105      42.899  -2.328   1.980  1.00 26.73      MOLA
ATOM    891  C   ASN   105      41.400  -1.769   4.990  1.00 38.52      MOLA
ATOM    892  O   ASN   105      40.483  -1.092   4.480  1.00 32.91      MOLA
ATOM    893  N   ASP   106      42.448  -1.225   5.598  1.00 36.29      MOLA
ATOM    894  CA  ASP   106      42.581   0.220   5.657  1.00 30.52      MOLA
ATOM    895  CB  ASP   106      43.356   0.660   6.917  1.00 32.79      MOLA
ATOM    896  CG  ASP   106      44.737   0.103   6.974  1.00 37.53      MOLA
ATOM    897  OD1 ASP   106      45.014  -0.907   6.276  1.00 28.48      MOLA
ATOM    898  OD2 ASP   106      45.540   0.676   7.736  1.00 40.05      MOLA
ATOM    899  C   ASP   106      43.268   0.642   4.375  1.00 23.41      MOLA
ATOM    900  O   ASP   106      44.247   0.051   3.927  1.00 21.57      MOLA
ATOM    901  N   GLU   107      42.728   1.675   3.763  1.00 22.85      MOLA
ATOM    902  CA  GLU   107      43.261   2.137   2.495  1.00 31.11      MOLA
ATOM    903  CB  GLU   107      42.419   1.500   1.382  1.00 27.53      MOLA
ATOM    904  CG  GLU   107      42.794   1.884  -0.033  1.00 33.82      MOLA
ATOM    905  CD  GLU   107      44.241   1.647  -0.331  1.00 39.69      MOLA
ATOM    906  OE1 GLU   107      45.038   2.599  -0.180  1.00 44.41      MOLA
ATOM    907  OE2 GLU   107      44.583   0.502  -0.704  1.00 46.78      MOLA
ATOM    908  C   GLU   107      43.200   3.671   2.436  1.00 32.97      MOLA
ATOM    909  O   GLU   107      42.617   4.319   3.320  1.00 30.96      MOLA
ATOM    910  N   HIS   108      43.795   4.237   1.396  1.00 32.33      MOLA
ATOM    911  CA  HIS   108      43.813   5.682   1.206  1.00 29.58      MOLA
ATOM    912  CB  HIS   108      44.796   6.040   0.101  1.00 27.08      MOLA
ATOM    913  CG  HIS   108      45.057   7.507  -0.009  1.00 42.52      MOLA
ATOM    914  CD2 HIS   108      44.290   8.513  -0.489  1.00 41.27      MOLA
ATOM    915  ND1 HIS   108      46.217   8.094   0.448  1.00 38.72      MOLA
ATOM    916  CE1 HIS   108      46.154   9.398   0.254  1.00 32.56      MOLA
ATOM    917  NE2 HIS   108      44.995   9.677  -0.312  1.00 44.85      MOLA
ATOM    918  C   HIS   108      42.420   6.199   0.849  1.00 28.91      MOLA
ATOM    919  O   HIS   108      41.778   5.739  -0.092  1.00 31.23      MOLA
ATOM    920  N   CYS   109      41.978   7.189   1.606  1.00 32.39      MOLA
ATOM    921  CA  CYS   109      40.669   7.788   1.456  1.00 26.98      MOLA
ATOM    922  C   CYS   109      40.271   8.410   0.115  1.00 26.35      MOLA
ATOM    923  O   CYS   109      39.112   8.695  -0.107  1.00 26.18      MOLA
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ATOM	924	CB	CYS	109	40.503	8.829	2.532	1.00 28.62	MOLA
ATOM	925	SG	CYS	109	40.633	8.172	4.208	1.00 34.82	MOLA
ATOM	926	N	LEU	110	41.217	8.640	-0.769	1.00 24.12	MOLA
ATOM	927	CA	LEU	110	40.874	9.238	-2.051	1.00 35.70	MOLA
ATOM	928	CB	LEU	110	41.940	10.264	-2.486	1.00 37.72	MOLA
ATOM	929	CG	LEU	110	42.007	11.524	-1.620	1.00 41.85	MOLA
ATOM	930	CD1	LEU	110	43.169	12.428	-2.075	1.00 38.03	MOLA
ATOM	931	CD2	LEU	110	40.662	12.214	-1.707	1.00 34.25	MOLA
ATOM	932	C	LEU	110	40.695	8.202	-3.145	1.00 34.54	MOLA
ATOM	933	O	LEU	110	40.330	8.553	-4.257	1.00 38.53	MOLA
ATOM	934	N	LYS	111	40.962	6.934	-2.850	1.00 31.93	MOLA
ATOM	935	CA	LYS	111	40.762	5.918	-3.867	1.00 34.37	MOLA
ATOM	936	CB	LYS	111	41.334	4.569	-3.426	1.00 37.90	MOLA
ATOM	937	CG	LYS	111	42.860	4.487	-3.547	1.00 40.24	MOLA
ATOM	938	CD	LYS	111	43.357	3.060	-3.436	1.00 48.58	MOLA
ATOM	939	CE	LYS	111	44.870	2.987	-3.516	1.00 53.31	MOLA
ATOM	940	NZ	LYS	111	45.378	3.552	-4.800	1.00 65.50	MOLA
ATOM	941	C	LYS	111	39.260	5.836	-4.051	1.00 29.16	MOLA
ATOM	942	O	LYS	111	38.500	6.162	-3.149	1.00 28.72	MOLA
ATOM	943	N	LYS	112	38.818	5.436	-5.223	1.00 26.23	MOLA
ATOM	944	CA	LYS	112	37.384	5.350	-5.446	1.00 34.05	MOLA
ATOM	945	CB	LYS	112	37.075	5.863	-6.855	1.00 40.14	MOLA
ATOM	946	CG	LYS	112	37.641	7.266	-7.131	1.00 38.05	MOLA
ATOM	947	CD	LYS	112	37.292	7.713	-8.546	1.00 52.70	MOLA
ATOM	948	CE	LYS	112	37.668	9.165	-8.806	1.00 56.99	MOLA
ATOM	949	NZ	LYS	112	39.118	9.462	-8.568	1.00 56.50	MOLA
ATOM	950	C	LYS	112	36.856	3.923	-5.236	1.00 32.57	MOLA
ATOM	951	O	LYS	112	37.338	2.969	-5.846	1.00 33.72	MOLA
ATOM	952	N	LYS	113	35.890	3.797	-4.336	1.00 30.41	MOLA
ATOM	953	CA	LYS	113	35.255	2.529	-3.997	1.00 30.44	MOLA
ATOM	954	CB	LYS	113	35.801	1.978	-2.660	1.00 27.67	MOLA
ATOM	955	CG	LYS	113	37.312	1.785	-2.620	1.00 26.70	MOLA
ATOM	956	CD	LYS	113	37.810	1.161	-1.313	1.00 26.27	MOLA
ATOM	957	CE	LYS	113	39.322	0.907	-1.374	1.00 11.26	MOLA
ATOM	958	NZ	LYS	113	39.690	0.156	-2.664	1.00 19.73	MOLA
ATOM	959	C	LYS	113	33.758	2.804	-3.858	1.00 31.19	MOLA
ATOM	960	O	LYS	113	33.335	3.940	-3.681	1.00 32.90	MOLA
ATOM	961	N	HIS	114	32.958	1.755	-3.902	1.00 28.01	MOLA
ATOM	962	CA	HIS	114	31.530	1.921	-3.795	1.00 27.55	MOLA
ATOM	963	CB	HIS	114	30.804	0.689	-4.344	1.00 21.47	MOLA
ATOM	964	CG	HIS	114	30.927	0.547	-5.827	1.00 26.56	MOLA
ATOM	965	CD2	HIS	114	30.021	0.724	-6.819	1.00 26.45	MOLA
ATOM	966	ND1	HIS	114	32.124	0.261	-6.449	1.00 25.75	MOLA
ATOM	967	CE1	HIS	114	31.953	0.270	-7.759	1.00 26.15	MOLA
ATOM	968	NE2	HIS	114	30.685	0.548	-8.011	1.00 36.65	MOLA
ATOM	969	C	HIS	114	31.097	2.191	-2.384	1.00 30.65	MOLA
ATOM	970	O	HIS	114	31.487	1.479	-1.465	1.00 28.75	MOLA
ATOM	971	N	ALA	115	30.287	3.237	-2.234	1.00 33.94	MOLA
ATOM	972	CA	ALA	115	29.748	3.634	-0.949	1.00 29.83	MOLA
ATOM	973	CB	ALA	115	29.041	4.952	-1.081	1.00 30.22	MOLA
ATOM	974	C	ALA	115	28.753	2.587	-0.457	1.00 33.74	MOLA
ATOM	975	O	ALA	115	27.861	2.166	-1.214	1.00 29.23	MOLA
ATOM	976	N	LEU	116	28.902	2.165	0.797	1.00 24.43	MOLA
ATOM	977	CA	LEU	116	27.979	1.189	1.362	1.00 30.02	MOLA
ATOM	978	CB	LEU	116	28.751	-0.026	1.882	1.00 19.85	MOLA
ATOM	979	CG	LEU	116	27.905	-1.118	2.538	1.00 26.13	MOLA
ATOM	980	CD1	LEU	116	26.754	-1.567	1.619	1.00 18.90	MOLA
ATOM	981	CD2	LEU	116	28.827	-2.286	2.835	1.00 24.75	MOLA
ATOM	982	C	LEU	116	27.231	1.927	2.490	1.00 29.33	MOLA
ATOM	983	O	LEU	116	27.812	2.340	3.493	1.00 35.15	MOLA
ATOM	984	N	CYS	117	25.930	2.059	2.340	1.00 26.05	MOLA
ATOM	985	CA	CYS	117	25.176	2.835	3.292	1.00 26.39	MOLA
ATOM	986	C	CYS	117	24.084	2.120	4.052	1.00 35.05	MOLA
ATOM	987	O	CYS	117	23.668	0.996	3.705	1.00 33.73	MOLA
ATOM	988	CB	CYS	117	24.481	3.984	2.560	1.00 30.64	MOLA
ATOM	989	SG	CYS	117	25.315	4.817	1.151	1.00 31.86	MOLA

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ATOM	990	N	TYR	118	23.578	2.825	5.063	1.00	29.15	MOLA
ATOM	991	CA	TYR	118	22.454	2.319	5.816	1.00	33.26	MOLA
ATOM	992	CB	TYR	118	22.905	1.696	7.132	1.00	32.89	MOLA
ATOM	993	CG	TYR	118	23.207	2.713	8.207	1.00	24.85	MOLA
ATOM	994	CD1	TYR	118	24.440	3.369	8.250	1.00	27.19	MOLA
ATOM	995	CE1	TYR	118	24.739	4.270	9.256	1.00	26.67	MOLA
ATOM	996	CD2	TYR	118	22.277	2.995	9.189	1.00	31.44	MOLA
ATOM	997	CE2	TYR	118	22.560	3.912	10.215	1.00	36.36	MOLA
ATOM	998	CZ	TYR	118	23.790	4.537	10.247	1.00	34.17	MOLA
ATOM	999	OH	TYR	118	24.086	5.389	11.286	1.00	33.36	MOLA
ATOM	1000	C	TYR	118	21.459	3.438	6.133	1.00	38.20	MOLA
ATOM	1001	O	TYR	118	21.833	4.594	6.358	1.00	34.82	MOLA
ATOM	1002	N	THR	119	20.186	3.082	6.140	1.00	38.17	MOLA
ATOM	1003	CA	THR	119	19.149	4.023	6.519	1.00	36.48	MOLA
ATOM	1004	CB	THR	119	17.902	3.986	5.592	1.00	31.81	MOLA
ATOM	1005	OG1	THR	119	18.281	4.150	4.221	1.00	34.51	MOLA
ATOM	1006	CG2	THR	119	16.971	5.122	5.975	1.00	35.65	MOLA
ATOM	1007	C	THR	119	18.725	3.481	7.890	1.00	35.74	MOLA
ATOM	1008	O	THR	119	18.388	2.295	8.017	1.00	33.98	MOLA
ATOM	1009	N	ALA	120	18.745	4.330	8.906	1.00	33.04	MOLA
ATOM	1010	CA	ALA	120	18.366	3.907	10.250	1.00	35.64	MOLA
ATOM	1011	CB	ALA	120	18.631	5.035	11.247	1.00	35.72	MOLA
ATOM	1012	C	ALA	120	16.909	3.478	10.320	1.00	35.36	MOLA
ATOM	1013	O	ALA	120	16.045	4.088	9.698	1.00	36.22	MOLA
ATOM	1014	N	SER	121	16.646	2.412	11.068	1.00	31.83	MOLA
ATOM	1015	CA	SER	121	15.286	1.917	11.235	1.00	33.23	MOLA
ATOM	1016	CB	SER	121	15.269	0.388	11.352	1.00	30.49	MOLA
ATOM	1017	OG	SER	121	15.636	-0.227	10.134	1.00	33.40	MOLA
ATOM	1018	C	SER	121	14.716	2.517	12.511	1.00	36.23	MOLA
ATOM	1019	O	SER	121	13.512	2.774	12.617	1.00	34.25	MOLA
ATOM	1020	N	CYS	122	15.591	2.716	13.490	1.00	35.99	MOLA
ATOM	1021	CA	CYS	122	15.179	3.293	14.754	1.00	42.20	MOLA
ATOM	1022	C	CYS	122	14.748	4.723	14.515	1.00	46.38	MOLA
ATOM	1023	O	CYS	122	15.494	5.500	13.913	1.00	46.95	MOLA
ATOM	1024	CB	CYS	122	16.337	3.284	15.748	1.00	41.57	MOLA
ATOM	1025	SG	CYS	122	16.726	1.631	16.390	1.00	45.34	MOLA
ATOM	1026	N	GLN	123	13.549	5.059	14.977	1.00	50.03	MOLA
ATOM	1027	CA	GLN	123	13.010	6.407	14.843	1.00	54.42	MOLA
ATOM	1028	CB	GLN	123	11.591	6.375	14.267	1.00	56.75	MOLA
ATOM	1029	CG	GLN	123	11.529	5.955	12.815	1.00	61.36	MOLA
ATOM	1030	CD	GLN	123	12.554	6.693	11.972	1.00	72.75	MOLA
ATOM	1031	OE1	GLN	123	12.588	7.932	11.959	1.00	74.07	MOLA
ATOM	1032	NE2	GLN	123	13.405	5.938	11.266	1.00	69.43	MOLA
ATOM	1033	C	GLN	123	12.985	7.100	16.200	1.00	57.81	MOLA
ATOM	1034	O	GLN	123	13.305	6.500	17.227	1.00	48.88	MOLA
ATOM	1035	N	ASP	124	12.591	8.370	16.186	1.00	66.08	MOLA
ATOM	1036	CA	ASP	124	12.517	9.175	17.397	1.00	68.22	MOLA
ATOM	1037	CB	ASP	124	11.894	10.535	17.088	1.00	73.25	MOLA
ATOM	1038	CG	ASP	124	11.746	11.396	18.336	1.00	80.79	MOLA
ATOM	1039	OD1	ASP	124	12.787	11.702	18.972	1.00	79.60	MOLA
ATOM	1040	OD2	ASP	124	10.592	11.754	18.681	1.00	81.65	MOLA
ATOM	1041	C	ASP	124	11.728	8.528	18.537	1.00	66.01	MOLA
ATOM	1042	O	ASP	124	12.254	8.355	19.639	1.00	62.72	MOLA
ATOM	1043	N	MET	125	10.467	8.192	18.267	1.00	62.96	MOLA
ATOM	1044	CA	MET	125	9.595	7.579	19.263	1.00	66.71	MOLA
ATOM	1045	CB	MET	125	8.161	8.094	19.085	1.00	74.92	MOLA
ATOM	1046	CG	MET	125	7.945	9.556	19.514	1.00	80.60	MOLA
ATOM	1047	SD	MET	125	8.459	9.912	21.231	1.00	89.84	MOLA
ATOM	1048	CE	MET	125	7.229	8.992	22.176	1.00	82.80	MOLA
ATOM	1049	C	MET	125	9.589	6.045	19.280	1.00	62.49	MOLA
ATOM	1050	O	MET	125	8.668	5.419	19.814	1.00	63.09	MOLA
ATOM	1051	N	SER	126	10.619	5.438	18.707	1.00	58.67	MOLA
ATOM	1052	CA	SER	126	10.713	3.981	18.677	1.00	52.95	MOLA
ATOM	1053	CB	SER	126	11.923	3.543	17.837	1.00	49.62	MOLA
ATOM	1054	OG	SER	126	11.763	3.907	16.481	1.00	39.08	MOLA
ATOM	1055	C	SER	126	10.856	3.425	20.087	1.00	48.82	MOLA

ATOM	1056	O	SER	126	11.554	4.001	20.922	1.00 51.38	MOLA
ATOM	1057	N	CYS	127	10.199	2.305	20.352	1.00 42.37	MOLA
ATOM	1058	CA	CYS	127	10.287	1.681	21.667	1.00 43.95	MOLA
ATOM	1059	C	CYS	127	9.706	2.574	22.754	1.00 44.61	MOLA
ATOM	1060	O	CYS	127	10.148	2.533	23.902	1.00 47.02	MOLA
ATOM	1061	CB	CYS	127	11.746	1.371	21.994	1.00 42.32	MOLA
ATOM	1062	SG	CYS	127	12.618	0.428	20.694	1.00 42.89	MOLA
ATOM	1063	N	SER	128	8.720	3.382	22.376	1.00 47.44	MOLA
ATOM	1064	CA	SER	128	8.039	4.308	23.282	1.00 51.37	MOLA
ATOM	1065	CB	SER	128	7.110	3.535	24.223	1.00 48.61	MOLA
ATOM	1066	OG	SER	128	6.150	2.798	23.481	1.00 58.78	MOLA
ATOM	1067	C	SER	128	8.986	5.171	24.103	1.00 50.98	MOLA
ATOM	1068	O	SER	128	8.635	5.620	25.189	1.00 51.18	MOLA
ATOM	1069	N	LYS	129	10.186	5.400	23.589	1.00 52.28	MOLA
ATOM	1070	CA	LYS	129	11.172	6.199	24.306	1.00 57.73	MOLA
ATOM	1071	CB	LYS	129	10.671	7.645	24.446	1.00 62.67	MOLA
ATOM	1072	CG	LYS	129	11.775	8.696	24.545	1.00 68.05	MOLA
ATOM	1073	CD	LYS	129	12.526	8.841	23.220	1.00 72.34	MOLA
ATOM	1074	CE	LYS	129	13.595	9.934	23.290	1.00 73.30	MOLA
ATOM	1075	NZ	LYS	129	14.298	10.157	21.988	1.00 72.13	MOLA
ATOM	1076	C	LYS	129	11.345	5.560	25.688	1.00 58.72	MOLA
ATOM	1077	O	LYS	129	11.787	6.210	26.639	1.00 62.80	MOLA
ATOM	1078	N	GLN	130	11.001	4.276	25.780	1.00 56.43	MOLA
ATOM	1079	CA	GLN	130	11.075	3.528	27.030	1.00 52.52	MOLA
ATOM	1080	CB	GLN	130	9.647	3.193	27.481	1.00 54.16	MOLA
ATOM	1081	CG	GLN	130	9.009	4.324	28.299	1.00 51.74	MOLA
ATOM	1082	CD	GLN	130	7.492	4.274	28.351	1.00 53.54	MOLA
ATOM	1083	OE1	GLN	130	6.893	3.203	28.399	1.00 55.26	MOLA
ATOM	1084	NE2	GLN	130	6.863	5.447	28.360	1.00 58.26	MOLA
ATOM	1085	C	GLN	130	11.948	2.269	26.939	1.00 53.08	MOLA
ATOM	1086	O	GLN	130	11.861	1.351	27.766	1.00 47.18	MOLA
ATOM	1087	N	GLY	131	12.805	2.251	25.924	1.00 52.56	MOLA
ATOM	1088	CA	GLY	131	13.717	1.141	25.720	1.00 47.97	MOLA
ATOM	1089	C	GLY	131	14.838	1.568	24.787	1.00 48.15	MOLA
ATOM	1090	O	GLY	131	14.804	2.637	24.181	1.00 48.58	MOLA
ATOM	1091	N	GLU	132	15.861	0.744	24.672	1.00 48.86	MOLA
ATOM	1092	CA	GLU	132	16.934	1.087	23.777	1.00 48.85	MOLA
ATOM	1093	CB	GLU	132	18.237	0.451	24.220	1.00 48.46	MOLA
ATOM	1094	CG	GLU	132	19.433	1.075	23.555	1.00 63.11	MOLA
ATOM	1095	CD	GLU	132	20.736	0.459	24.012	1.00 72.44	MOLA
ATOM	1096	OE1	GLU	132	20.921	0.329	25.251	1.00 73.37	MOLA
ATOM	1097	OE2	GLU	132	21.565	0.114	23.130	1.00 68.67	MOLA
ATOM	1098	C	GLU	132	16.512	0.509	22.449	1.00 45.77	MOLA
ATOM	1099	O	GLU	132	16.073	-0.629	22.386	1.00 49.64	MOLA
ATOM	1100	N	CYS	133	16.597	1.300	21.391	1.00 44.76	MOLA
ATOM	1101	CA	CYS	133	16.233	0.803	20.081	1.00 40.05	MOLA
ATOM	1102	C	CYS	133	17.499	0.214	19.475	1.00 38.49	MOLA
ATOM	1103	O	CYS	133	18.548	0.858	19.408	1.00 38.45	MOLA
ATOM	1104	CB	CYS	133	15.676	1.915	19.205	1.00 35.68	MOLA
ATOM	1105	SG	CYS	133	15.124	1.278	17.588	1.00 45.83	MOLA
ATOM	1106	N	LEU	134	17.382	-1.039	19.064	1.00 41.35	MOLA
ATOM	1107	CA	LEU	134	18.484	-1.798	18.508	1.00 39.78	MOLA
ATOM	1108	CB	LEU	134	18.571	-3.139	19.235	1.00 43.18	MOLA
ATOM	1109	CG	LEU	134	19.477	-4.211	18.624	1.00 53.25	MOLA
ATOM	1110	CD1	LEU	134	20.963	-3.923	18.941	1.00 48.96	MOLA
ATOM	1111	CD2	LEU	134	19.060	-5.552	19.179	1.00 41.10	MOLA
ATOM	1112	C	LEU	134	18.224	-2.026	17.040	1.00 32.66	MOLA
ATOM	1113	O	LEU	134	17.154	-2.491	16.676	1.00 33.36	MOLA
ATOM	1114	N	GLU	135	19.200	-1.695	16.206	1.00 34.24	MOLA
ATOM	1115	CA	GLU	135	19.055	-1.867	14.771	1.00 30.85	MOLA
ATOM	1116	CB	GLU	135	19.985	-0.904	14.020	1.00 34.28	MOLA
ATOM	1117	CG	GLU	135	19.749	0.604	14.266	1.00 35.42	MOLA
ATOM	1118	CD	GLU	135	18.648	1.220	13.398	1.00 40.82	MOLA
ATOM	1119	OE1	GLU	135	18.304	0.648	12.339	1.00 38.83	MOLA
ATOM	1120	OE2	GLU	135	18.133	2.300	13.767	1.00 39.62	MOLA
ATOM	1121	C	GLU	135	19.396	-3.310	14.391	1.00 32.90	MOLA

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ATOM   1122  O   GLU   135      20.364  -3.883  14.893  1.00 40.24      MOLA
ATOM   1123  N   THR   136      18.592  -3.904  13.516  1.00 27.87      MOLA
ATOM   1124  CA  THR   136      18.842  -5.261  13.055  1.00 31.39      MOLA
ATOM   1125  CB  THR   136      17.738  -6.251  13.520  1.00 28.35      MOLA
ATOM   1126  OG1 THR   136      16.484  -5.860  12.964  1.00 39.65      MOLA
ATOM   1127  CG2 THR   136      17.611  -6.265  15.032  1.00 28.39      MOLA
ATOM   1128  C   THR   136      18.876  -5.232  11.531  1.00 36.96      MOLA
ATOM   1129  O   THR   136      18.830  -4.158  10.908  1.00 37.83      MOLA
ATOM   1130  N   ILE   137      18.985  -6.406  10.925  1.00 29.43      MOLA
ATOM   1131  CA  ILE   137      19.003  -6.496   9.478  1.00 30.35      MOLA
ATOM   1132  CB  ILE   137      19.384  -7.916   9.021  1.00 24.10      MOLA
ATOM   1133  CG2 ILE   137      19.325  -7.999   7.527  1.00 25.86      MOLA
ATOM   1134  CG1 ILE   137      20.793  -8.248   9.498  1.00 31.88      MOLA
ATOM   1135  CD1 ILE   137      21.319  -9.594   9.077  1.00 26.74      MOLA
ATOM   1136  C   ILE   137      17.620  -6.128   8.917  1.00 31.69      MOLA
ATOM   1137  O   ILE   137      16.667  -6.913   9.011  1.00 36.32      MOLA
ATOM   1138  N   GLY   138      17.515  -4.924   8.353  1.00 32.76      MOLA
ATOM   1139  CA  GLY   138      16.268  -4.452   7.766  1.00 34.22      MOLA
ATOM   1140  C   GLY   138      15.152  -4.068   8.731  1.00 36.13      MOLA
ATOM   1141  O   GLY   138      13.990  -3.980   8.325  1.00 35.14      MOLA
ATOM   1142  N   ASN   139      15.482  -3.823  10.000  1.00 37.54      MOLA
ATOM   1143  CA  ASN   139      14.441  -3.481  10.984  1.00 40.80      MOLA
ATOM   1144  CB  ASN   139      13.521  -4.702  11.176  1.00 39.47      MOLA
ATOM   1145  CG  ASN   139      12.175  -4.337  11.785  1.00 40.83      MOLA
ATOM   1146  OD1 ASN   139      11.931  -3.179  12.123  1.00 43.85      MOLA
ATOM   1147  ND2 ASN   139      11.294  -5.330  11.925  1.00 41.02      MOLA
ATOM   1148  C   ASN   139      15.065  -3.083  12.327  1.00 36.74      MOLA
ATOM   1149  O   ASN   139      16.239  -2.702  12.388  1.00 38.04      MOLA
ATOM   1150  N   TYR   140      14.286  -3.174  13.400  1.00 37.29      MOLA
ATOM   1151  CA  TYR   140      14.786  -2.872  14.755  1.00 35.96      MOLA
ATOM   1152  CB  TYR   140      14.687  -1.369  15.070  1.00 31.12      MOLA
ATOM   1153  CG  TYR   140      13.263  -0.866  15.252  1.00 37.75      MOLA
ATOM   1154  CD1 TYR   140      12.545  -0.298  14.184  1.00 41.48      MOLA
ATOM   1155  CE1 TYR   140      11.214   0.141  14.347  1.00 33.69      MOLA
ATOM   1156  CD2 TYR   140      12.621  -0.984  16.487  1.00 30.46      MOLA
ATOM   1157  CE2 TYR   140      11.305  -0.557  16.658  1.00 36.32      MOLA
ATOM   1158  CZ  TYR   140      10.608   0.002  15.593  1.00 38.29      MOLA
ATOM   1159  OH  TYR   140       9.310   0.402  15.798  1.00 42.69      MOLA
ATOM   1160  C   TYR   140      14.005  -3.638  15.831  1.00 36.21      MOLA
ATOM   1161  O   TYR   140      12.883  -4.079  15.602  1.00 37.03      MOLA
ATOM   1162  N   THR   141      14.610  -3.805  17.002  1.00 39.89      MOLA
ATOM   1163  CA  THR   141      13.943  -4.464  18.119  1.00 40.69      MOLA
ATOM   1164  CB  THR   141      14.571  -5.813  18.487  1.00 43.50      MOLA
ATOM   1165  OG1 THR   141      15.998  -5.680  18.544  1.00 46.82      MOLA
ATOM   1166  CG2 THR   141      14.162  -6.863  17.482  1.00 34.78      MOLA
ATOM   1167  C   THR   141      14.104  -3.547  19.304  1.00 41.23      MOLA
ATOM   1168  O   THR   141      14.954  -2.660  19.300  1.00 44.72      MOLA
ATOM   1169  N   CYS   142      13.296  -3.766  20.322  1.00 39.42      MOLA
ATOM   1170  CA  CYS   142      13.369  -2.939  21.491  1.00 40.76      MOLA
ATOM   1171  C   CYS   142      13.820  -3.698  22.718  1.00 39.11      MOLA
ATOM   1172  O   CYS   142      13.273  -4.748  23.024  1.00 44.11      MOLA
ATOM   1173  CB  CYS   142      12.004  -2.326  21.757  1.00 37.83      MOLA
ATOM   1174  SG  CYS   142      11.417  -1.202  20.453  1.00 39.42      MOLA
ATOM   1175  N   SER   143      14.837  -3.169  23.393  1.00 40.29      MOLA
ATOM   1176  CA  SER   143      15.345  -3.724  24.650  1.00 42.01      MOLA
ATOM   1177  CB  SER   143      16.870  -3.681  24.715  1.00 49.68      MOLA
ATOM   1178  OG  SER   143      17.460  -4.230  23.554  1.00 58.59      MOLA
ATOM   1179  C   SER   143      14.790  -2.731  25.668  1.00 41.87      MOLA
ATOM   1180  O   SER   143      15.356  -1.651  25.872  1.00 42.70      MOLA
ATOM   1181  N   CYS   144      13.676  -3.089  26.291  1.00 42.10      MOLA
ATOM   1182  CA  CYS   144      13.015  -2.216  27.253  1.00 49.49      MOLA
ATOM   1183  C   CYS   144      13.792  -1.883  28.515  1.00 51.17      MOLA
ATOM   1184  O   CYS   144      14.564  -2.694  29.024  1.00 51.12      MOLA
ATOM   1185  CB  CYS   144      11.664  -2.813  27.624  1.00 42.50      MOLA
ATOM   1186  SG  CYS   144      10.668  -3.113  26.130  1.00 46.14      MOLA
ATOM   1187  N   TYR   145      13.595  -0.667  29.003  1.00 51.55      MOLA
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ATOM	1188	CA	TYR	145	14.256	-0.246	30.225	1.00	59.58	MOLA
ATOM	1189	CB	TYR	145	14.245	1.288	30.365	1.00	56.42	MOLA
ATOM	1190	CG	TYR	145	14.953	2.035	29.246	1.00	57.95	MOLA
ATOM	1191	CD1	TYR	145	16.166	1.575	28.729	1.00	52.06	MOLA
ATOM	1192	CE1	TYR	145	16.824	2.260	27.706	1.00	57.44	MOLA
ATOM	1193	CD2	TYR	145	14.414	3.211	28.710	1.00	56.30	MOLA
ATOM	1194	CE2	TYR	145	15.065	3.907	27.687	1.00	57.08	MOLA
ATOM	1195	CZ	TYR	145	16.272	3.426	27.189	1.00	59.30	MOLA
ATOM	1196	OH	TYR	145	16.934	4.105	26.185	1.00	61.52	MOLA
ATOM	1197	C	TYR	145	13.468	-0.864	31.372	1.00	61.95	MOLA
ATOM	1198	O	TYR	145	12.283	-1.191	31.219	1.00	66.67	MOLA
ATOM	1199	N	PRO	146	14.115	-1.056	32.531	1.00	61.48	MOLA
ATOM	1200	CD	PRO	146	15.559	-0.913	32.791	1.00	61.07	MOLA
ATOM	1201	CA	PRO	146	13.428	-1.638	33.688	1.00	58.82	MOLA
ATOM	1202	CB	PRO	146	14.454	-1.473	34.801	1.00	60.35	MOLA
ATOM	1203	CG	PRO	146	15.745	-1.722	34.066	1.00	62.76	MOLA
ATOM	1204	C	PRO	146	12.129	-0.896	33.968	1.00	54.84	MOLA
ATOM	1205	O	PRO	146	12.096	0.334	33.924	1.00	53.49	MOLA
ATOM	1206	N	GLY	147	11.063	-1.648	34.240	1.00	51.61	MOLA
ATOM	1207	CA	GLY	147	9.766	-1.039	34.509	1.00	48.11	MOLA
ATOM	1208	C	GLY	147	8.863	-0.936	33.282	1.00	48.11	MOLA
ATOM	1209	O	GLY	147	7.711	-0.485	33.367	1.00	49.23	MOLA
ATOM	1210	N	PHE	148	9.387	-1.338	32.130	1.00	40.39	MOLA
ATOM	1211	CA	PHE	148	8.613	-1.301	30.899	1.00	43.37	MOLA
ATOM	1212	CB	PHE	148	9.107	-0.169	29.994	1.00	47.42	MOLA
ATOM	1213	CG	PHE	148	9.180	1.156	30.672	1.00	47.36	MOLA
ATOM	1214	CD1	PHE	148	10.332	1.547	31.341	1.00	51.66	MOLA
ATOM	1215	CD2	PHE	148	8.082	2.005	30.677	1.00	49.77	MOLA
ATOM	1216	CE1	PHE	148	10.382	2.777	32.008	1.00	51.79	MOLA
ATOM	1217	CE2	PHE	148	8.122	3.241	31.344	1.00	48.33	MOLA
ATOM	1218	CZ	PHE	148	9.268	3.623	32.005	1.00	43.75	MOLA
ATOM	1219	C	PHE	148	8.744	-2.627	30.152	1.00	42.45	MOLA
ATOM	1220	O	PHE	148	9.703	-3.366	30.350	1.00	44.99	MOLA
ATOM	1221	N	TYR	149	7.772	-2.947	29.313	1.00	42.28	MOLA
ATOM	1222	CA	TYR	149	7.861	-4.170	28.532	1.00	40.12	MOLA
ATOM	1223	CB	TYR	149	7.479	-5.420	29.353	1.00	38.52	MOLA
ATOM	1224	CG	TYR	149	6.071	-5.473	29.901	1.00	40.93	MOLA
ATOM	1225	CD1	TYR	149	5.693	-4.693	30.995	1.00	46.05	MOLA
ATOM	1226	CE1	TYR	149	4.389	-4.745	31.505	1.00	39.90	MOLA
ATOM	1227	CD2	TYR	149	5.112	-6.311	29.327	1.00	39.63	MOLA
ATOM	1228	CE2	TYR	149	3.808	-6.364	29.820	1.00	38.81	MOLA
ATOM	1229	CZ	TYR	149	3.455	-5.578	30.904	1.00	43.42	MOLA
ATOM	1230	OH	TYR	149	2.161	-5.585	31.359	1.00	48.64	MOLA
ATOM	1231	C	TYR	149	6.970	-4.025	27.323	1.00	42.66	MOLA
ATOM	1232	O	TYR	149	6.314	-2.996	27.146	1.00	37.44	MOLA
ATOM	1233	N	GLY	150	6.953	-5.046	26.479	1.00	38.41	MOLA
ATOM	1234	CA	GLY	150	6.137	-4.966	25.288	1.00	39.26	MOLA
ATOM	1235	C	GLY	150	7.031	-4.865	24.074	1.00	36.46	MOLA
ATOM	1236	O	GLY	150	8.157	-4.394	24.185	1.00	33.59	MOLA
ATOM	1237	N	PRO	151	6.555	-5.296	22.896	1.00	39.15	MOLA
ATOM	1238	CD	PRO	151	5.187	-5.765	22.602	1.00	36.82	MOLA
ATOM	1239	CA	PRO	151	7.378	-5.226	21.679	1.00	42.18	MOLA
ATOM	1240	CB	PRO	151	6.430	-5.739	20.586	1.00	42.45	MOLA
ATOM	1241	CG	PRO	151	5.047	-5.442	21.138	1.00	44.47	MOLA
ATOM	1242	C	PRO	151	7.947	-3.813	21.418	1.00	37.94	MOLA
ATOM	1243	O	PRO	151	9.056	-3.664	20.893	1.00	31.40	MOLA
ATOM	1244	N	GLU	152	7.192	-2.793	21.815	1.00	33.51	MOLA
ATOM	1245	CA	GLU	152	7.636	-1.400	21.687	1.00	40.87	MOLA
ATOM	1246	CB	GLU	152	6.614	-0.561	20.912	1.00	33.19	MOLA
ATOM	1247	CG	GLU	152	6.470	-0.898	19.447	1.00	34.15	MOLA
ATOM	1248	CD	GLU	152	7.660	-0.462	18.604	1.00	39.94	MOLA
ATOM	1249	OE1	GLU	152	8.300	0.569	18.939	1.00	38.78	MOLA
ATOM	1250	OE2	GLU	152	7.943	-1.150	17.592	1.00	45.26	MOLA
ATOM	1251	C	GLU	152	7.811	-0.786	23.087	1.00	41.65	MOLA
ATOM	1252	O	GLU	152	7.838	0.440	23.233	1.00	40.23	MOLA
ATOM	1253	N	CYS	153	7.925	-1.641	24.106	1.00	39.32	MOLA

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ATOM   1254  CA  CYS   153       8.063  -1.188  25.492  1.00 42.98      MOLA
ATOM   1255  C   CYS   153       6.882  -0.288  25.841  1.00 41.91      MOLA
ATOM   1256  O   CYS   153       6.985   0.574  26.701  1.00 43.18      MOLA
ATOM   1257  CB  CYS   153       9.375  -0.416  25.682  1.00 34.39      MOLA
ATOM   1258  SG  CYS   153      10.810  -1.359  25.085  1.00 40.15      MOLA
ATOM   1259  N   GLU   154       5.756  -0.497  25.171  1.00 43.71      MOLA
ATOM   1260  CA  GLU   154       4.580   0.320  25.415  1.00 48.32      MOLA
ATOM   1261  CB  GLU   154       3.586   0.193  24.241  1.00 45.40      MOLA
ATOM   1262  CG  GLU   154       2.963  -1.196  24.046  1.00 51.25      MOLA
ATOM   1263  CD  GLU   154       3.774  -2.110  23.139  1.00 53.70      MOLA
ATOM   1264  OE1 GLU   154       4.966  -2.347  23.425  1.00 50.51      MOLA
ATOM   1265  OE2 GLU   154       3.211  -2.596  22.135  1.00 54.72      MOLA
ATOM   1266  C   GLU   154       3.876   0.017  26.747  1.00 49.48      MOLA
ATOM   1267  O   GLU   154       3.039   0.798  27.195  1.00 51.24      MOLA
ATOM   1268  N   TYR   155       4.202  -1.105  27.383  1.00 46.96      MOLA
ATOM   1269  CA  TYR   155       3.575  -1.433  28.662  1.00 45.43      MOLA
ATOM   1270  CB  TYR   155       3.326  -2.944  28.776  1.00 46.97      MOLA
ATOM   1271  CG  TYR   155       2.384  -3.448  27.718  1.00 48.22      MOLA
ATOM   1272  CD1 TYR   155       1.098  -2.919  27.607  1.00 48.20      MOLA
ATOM   1273  CE1 TYR   155       0.251  -3.292  26.563  1.00 53.29      MOLA
ATOM   1274  CD2 TYR   155       2.804  -4.376  26.769  1.00 41.26      MOLA
ATOM   1275  CE2 TYR   155       1.975  -4.758  25.723  1.00 47.18      MOLA
ATOM   1276  CZ  TYR   155       0.697  -4.210  25.619  1.00 51.99      MOLA
ATOM   1277  OH  TYR   155      -0.123  -4.553  24.562  1.00 57.48      MOLA
ATOM   1278  C   TYR   155       4.411  -0.969  29.838  1.00 42.52      MOLA
ATOM   1279  O   TYR   155       5.623  -1.151  29.843  1.00 41.86      MOLA
ATOM   1280  N   VAL   156       3.752  -0.377  30.834  1.00 42.85      MOLA
ATOM   1281  CA  VAL   156       4.424   0.106  32.047  1.00 45.99      MOLA
ATOM   1282  CB  VAL   156       4.013   1.565  32.411  1.00 53.29      MOLA
ATOM   1283  CG1 VAL   156       5.001   2.136  33.428  1.00 49.74      MOLA
ATOM   1284  CG2 VAL   156       3.943   2.442  31.172  1.00 47.43      MOLA
ATOM   1285  C   VAL   156       4.071  -0.781  33.254  1.00 47.00      MOLA
ATOM   1286  O   VAL   156       2.897  -0.983  33.583  1.00 45.72      MOLA
ATOM   1287  N   ARG   157       5.096  -1.298  33.918  1.00 48.57      MOLA
ATOM   1288  CA  ARG   157       4.903  -2.163  35.075  1.00 51.17      MOLA
ATOM   1289  CB  ARG   157       6.252  -2.691  35.544  1.00 49.63      MOLA
ATOM   1290  CG  ARG   157       6.696  -3.892  34.766  1.00 51.23      MOLA
ATOM   1291  CD  ARG   157       5.826  -5.047  35.149  1.00 50.72      MOLA
ATOM   1292  NE  ARG   157       6.231  -5.510  36.460  1.00 51.64      MOLA
ATOM   1293  CZ  ARG   157       7.381  -6.133  36.692  1.00 51.03      MOLA
ATOM   1294  NH1 ARG   157       8.217  -6.370  35.692  1.00 44.84      MOLA
ATOM   1295  NH2 ARG   157       7.708  -6.490  37.923  1.00 48.35      MOLA
ATOM   1296  C   ARG   157       4.209  -1.450  36.212  1.00 56.09      MOLA
ATOM   1297  O   ARG   157       4.522  -0.296  36.492  1.00 56.07      MOLA
ATOM   1298  N   ASP   158       3.265  -2.132  36.862  1.00 58.57      MOLA
ATOM   1299  CA  ASP   158       2.536  -1.533  37.983  1.00 65.57      MOLA
ATOM   1300  CB  ASP   158       1.248  -2.313  38.277  1.00 61.11      MOLA
ATOM   1301  CG  ASP   158       0.082  -1.874  37.399  1.00 60.61      MOLA
ATOM   1302  OD1 ASP   158       0.286  -1.036  36.488  1.00 64.00      MOLA
ATOM   1303  OD2 ASP   158      -1.045  -2.370  37.618  1.00 62.67      MOLA
ATOM   1304  C   ASP   158       3.401  -1.450  39.242  1.00 68.14      MOLA
ATOM   1305  O   ASP   158       3.427  -0.423  39.917  1.00 72.04      MOLA
ATOM   1306  N   ALA   159       4.106  -2.530  39.558  1.00 74.54      MOLA
ATOM   1307  CA  ALA   159       4.987  -2.559  40.726  1.00 78.22      MOLA
ATOM   1308  CB  ALA   159       4.346  -3.356  41.869  1.00 76.21      MOLA
ATOM   1309  C   ALA   159       6.282  -3.221  40.278  1.00 80.55      MOLA
ATOM   1310  O   ALA   159       6.332  -3.808  39.194  1.00 79.36      MOLA
ATOM   1311  N   ALA   160       7.324  -3.109  41.100  1.00 85.94      MOLA
ATOM   1312  CA  ALA   160       8.637  -3.699  40.805  1.00 87.67      MOLA
ATOM   1313  CB  ALA   160       8.988  -3.516  39.320  1.00 89.11      MOLA
ATOM   1314  C   ALA   160       9.730  -3.076  41.676  1.00 89.34      MOLA
ATOM   1315  O   ALA   160      10.676  -2.492  41.103  1.00 89.52      MOLA
ATOM   1316  OXT ALA   160       9.631  -3.179  42.921  1.00 92.73      MOLA
ATOM   1317  CB  TRP     1      58.230  12.210  64.595  1.00 38.71      MOLB
ATOM   1318  CG  TRP     1      57.642  12.823  63.350  1.00 37.03      MOLB
ATOM   1319  CD2 TRP     1      56.872  12.157  62.347  1.00 31.67      MOLB
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PDB-ENTRY 3SGB

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ATOM   1320  CE2 TRP     1      56.546  13.121  61.360  1.00 36.03      MOLB
ATOM   1321  CE3 TRP     1      56.422  10.844  62.183  1.00 36.10      MOLB
ATOM   1322  CD1 TRP     1      57.752  14.134  62.940  1.00 31.98      MOLB
ATOM   1323  NE1 TRP     1      57.093  14.317  61.750  1.00 34.63      MOLB
ATOM   1324  CZ2 TRP     1      55.790  12.807  60.226  1.00 33.89      MOLB
ATOM   1325  CZ3 TRP     1      55.667  10.533  61.052  1.00 42.20      MOLB
ATOM   1326  CH2 TRP     1      55.361  11.515  60.089  1.00 41.43      MOLB
ATOM   1327  C   TRP     1      59.176  14.246  65.685  1.00 32.39      MOLB
ATOM   1328  O   TRP     1      58.858  15.381  65.327  1.00 34.72      MOLB
ATOM   1329  N   TRP     1      56.747  13.649  65.912  1.00 36.11      MOLB
ATOM   1330  CA  TRP     1      58.132  13.133  65.808  1.00 31.69      MOLB
ATOM   1331  N   THR     2      60.424  13.892  65.988  1.00 33.25      MOLB
ATOM   1332  CA  THR     2      61.571  14.784  65.906  1.00 28.05      MOLB
ATOM   1333  CB  THR     2      62.438  14.674  67.168  1.00 33.70      MOLB
ATOM   1334  OG1 THR     2      62.618  13.286  67.494  1.00 41.24      MOLB
ATOM   1335  CG2 THR     2      61.757  15.403  68.352  1.00 34.16      MOLB
ATOM   1336  C   THR     2      62.398  14.353  64.694  1.00 36.18      MOLB
ATOM   1337  O   THR     2      62.403  13.169  64.334  1.00 39.45      MOLB
ATOM   1338  N   TYR     3      63.103  15.305  64.077  1.00 34.59      MOLB
ATOM   1339  CA  TYR     3      63.894  15.025  62.885  1.00 37.86      MOLB
ATOM   1340  CB  TYR     3      63.610  16.081  61.796  1.00 33.09      MOLB
ATOM   1341  CG  TYR     3      62.176  16.104  61.264  1.00 33.21      MOLB
ATOM   1342  CD1 TYR     3      61.658  15.037  60.531  1.00 37.89      MOLB
ATOM   1343  CE1 TYR     3      60.325  15.052  60.057  1.00 30.18      MOLB
ATOM   1344  CD2 TYR     3      61.333  17.193  61.511  1.00 36.35      MOLB
ATOM   1345  CE2 TYR     3      60.001  17.220  61.039  1.00 34.17      MOLB
ATOM   1346  CZ  TYR     3      59.512  16.146  60.314  1.00 32.88      MOLB
ATOM   1347  OH  TYR     3      58.226  16.174  59.817  1.00 33.40      MOLB
ATOM   1348  C   TYR     3      65.396  14.956  63.179  1.00 40.53      MOLB
ATOM   1349  O   TYR     3      65.896  15.601  64.095  1.00 40.97      MOLB
ATOM   1350  N   HIS     4      66.104  14.157  62.390  1.00 38.50      MOLB
ATOM   1351  CA  HIS     4      67.531  13.958  62.569  1.00 38.00      MOLB
ATOM   1352  CB  HIS     4      67.758  12.784  63.525  1.00 42.05      MOLB
ATOM   1353  CG  HIS     4      66.880  12.822  64.735  1.00 41.10      MOLB
ATOM   1354  CD2 HIS     4      65.618  12.368  64.931  1.00 39.98      MOLB
ATOM   1355  ND1 HIS     4      67.244  13.466  65.898  1.00 32.31      MOLB
ATOM   1356  CE1 HIS     4      66.242  13.409  66.757  1.00 40.78      MOLB
ATOM   1357  NE2 HIS     4      65.243  12.751  66.194  1.00 41.72      MOLB
ATOM   1358  C   HIS     4      68.118  13.597  61.218  1.00 39.88      MOLB
ATOM   1359  O   HIS     4      67.450  12.972  60.398  1.00 40.30      MOLB
ATOM   1360  N   TYR     5      69.354  13.995  60.971  1.00 37.73      MOLB
ATOM   1361  CA  TYR     5      69.995  13.649  59.710  1.00 41.12      MOLB
ATOM   1362  CB  TYR     5      69.871  14.793  58.694  1.00 33.56      MOLB
ATOM   1363  CG  TYR     5      70.607  16.043  59.102  1.00 43.25      MOLB
ATOM   1364  CD1 TYR     5      70.120  16.856  60.127  1.00 48.87      MOLB
ATOM   1365  CE1 TYR     5      70.829  17.975  60.560  1.00 41.36      MOLB
ATOM   1366  CD2 TYR     5      71.826  16.385  58.511  1.00 45.09      MOLB
ATOM   1367  CE2 TYR     5      72.540  17.497  58.936  1.00 47.16      MOLB
ATOM   1368  CZ  TYR     5      72.032  18.286  59.964  1.00 46.30      MOLB
ATOM   1369  OH  TYR     5      72.729  19.389  60.400  1.00 51.49      MOLB
ATOM   1370  C   TYR     5      71.469  13.351  59.967  1.00 40.88      MOLB
ATOM   1371  O   TYR     5      72.041  13.815  60.953  1.00 45.11      MOLB
ATOM   1372  N   SER     6      72.074  12.563  59.087  1.00 41.31      MOLB
ATOM   1373  CA  SER     6      73.488  12.225  59.201  1.00 41.92      MOLB
ATOM   1374  CB  SER     6      73.741  10.880  58.545  1.00 37.20      MOLB
ATOM   1375  OG  SER     6      73.278  10.923  57.207  1.00 49.56      MOLB
ATOM   1376  C   SER     6      74.306  13.304  58.485  1.00 46.22      MOLB
ATOM   1377  O   SER     6      73.859  13.879  57.480  1.00 45.98      MOLB
ATOM   1378  N   THR     7      75.502  13.581  58.989  1.00 43.50      MOLB
ATOM   1379  CA  THR     7      76.337  14.594  58.366  1.00 42.46      MOLB
ATOM   1380  CB  THR     7      77.322  15.241  59.356  1.00 44.90      MOLB
ATOM   1381  OG1 THR     7      77.992  14.214  60.100  1.00 40.29      MOLB
ATOM   1382  CG2 THR     7      76.587  16.198  60.286  1.00 39.50      MOLB
ATOM   1383  C   THR     7      77.134  13.980  57.252  1.00 40.61      MOLB
ATOM   1384  O   THR     7      77.793  14.688  56.495  1.00 40.95      MOLB
ATOM   1385  N   LYS     8      77.101  12.659  57.160  1.00 34.24      MOLB
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ATOM 1386 CA LYS 8 77.825 12.000 56.086 1.00 39.75 MOLB
ATOM 1387 CB LYS 8 78.815 10.968 56.633 1.00 41.54 MOLB
ATOM 1388 CG LYS 8 79.720 11.469 57.759 1.00 45.43 MOLB
ATOM 1389 CD LYS 8 80.457 12.764 57.414 1.00 56.37 MOLB
ATOM 1390 CE LYS 8 81.985 12.612 57.461 1.00 56.09 MOLB
ATOM 1391 NZ LYS 8 82.521 11.784 56.334 1.00 59.42 MOLB
ATOM 1392 C LYS 8 76.803 11.316 55.185 1.00 41.28 MOLB
ATOM 1393 O LYS 8 75.665 11.067 55.602 1.00 41.66 MOLB
ATOM 1394 N ALA 9 77.203 11.021 53.951 1.00 37.97 MOLB
ATOM 1395 CA ALA 9 76.311 10.371 52.997 1.00 36.42 MOLB
ATOM 1396 CB ALA 9 76.542 10.941 51.591 1.00 35.87 MOLB
ATOM 1397 C ALA 9 76.533 8.862 53.002 1.00 39.02 MOLB
ATOM 1398 O ALA 9 77.653 8.396 53.175 1.00 36.45 MOLB
ATOM 1399 N TYR 10 75.459 8.107 52.812 1.00 34.42 MOLB
ATOM 1400 CA TYR 10 75.542 6.655 52.803 1.00 37.40 MOLB
ATOM 1401 CB TYR 10 75.173 6.088 54.171 1.00 42.31 MOLB
ATOM 1402 CG TYR 10 76.017 6.557 55.335 1.00 46.28 MOLB
ATOM 1403 CD1 TYR 10 77.247 5.963 55.612 1.00 41.70 MOLB
ATOM 1404 CE1 TYR 10 78.000 6.347 56.719 1.00 44.32 MOLB
ATOM 1405 CD2 TYR 10 75.555 7.559 56.195 1.00 40.94 MOLB
ATOM 1406 CE2 TYR 10 76.297 7.955 57.307 1.00 45.87 MOLB
ATOM 1407 CZ TYR 10 77.528 7.344 57.568 1.00 46.16 MOLB
ATOM 1408 OH TYR 10 78.288 7.740 58.658 1.00 40.71 MOLB
ATOM 1409 C TYR 10 74.551 6.072 51.803 1.00 41.86 MOLB
ATOM 1410 O TYR 10 73.665 6.773 51.291 1.00 43.69 MOLB
ATOM 1411 N SER 11 74.679 4.773 51.549 1.00 38.10 MOLB
ATOM 1412 CA SER 11 73.755 4.107 50.656 1.00 37.75 MOLB
ATOM 1413 CB SER 11 74.202 2.679 50.385 1.00 38.20 MOLB
ATOM 1414 OG SER 11 74.027 1.892 51.531 1.00 31.07 MOLB
ATOM 1415 C SER 11 72.407 4.100 51.360 1.00 39.81 MOLB
ATOM 1416 O SER 11 72.325 4.372 52.556 1.00 37.17 MOLB
ATOM 1417 N TRP 12 71.348 3.788 50.622 1.00 39.44 MOLB
ATOM 1418 CA TRP 12 70.033 3.780 51.226 1.00 35.54 MOLB
ATOM 1419 CB TRP 12 68.962 3.397 50.211 1.00 38.31 MOLB
ATOM 1420 CG TRP 12 67.586 3.637 50.719 1.00 31.82 MOLB
ATOM 1421 CD2 TRP 12 66.747 2.694 51.385 1.00 32.93 MOLB
ATOM 1422 CE2 TRP 12 65.540 3.357 51.694 1.00 35.87 MOLB
ATOM 1423 CE3 TRP 12 66.899 1.352 51.759 1.00 33.39 MOLB
ATOM 1424 CD1 TRP 12 66.877 4.807 50.656 1.00 33.40 MOLB
ATOM 1425 NE1 TRP 12 65.648 4.644 51.237 1.00 35.10 MOLB
ATOM 1426 CZ2 TRP 12 64.491 2.727 52.355 1.00 33.22 MOLB
ATOM 1427 CZ3 TRP 12 65.857 0.725 52.420 1.00 38.62 MOLB
ATOM 1428 CH2 TRP 12 64.665 1.415 52.711 1.00 39.33 MOLB
ATOM 1429 C TRP 12 69.989 2.806 52.382 1.00 38.57 MOLB
ATOM 1430 O TRP 12 69.521 3.148 53.471 1.00 45.08 MOLB
ATOM 1431 N ASN 13 70.479 1.592 52.152 1.00 40.00 MOLB
ATOM 1432 CA ASN 13 70.470 0.573 53.193 1.00 39.54 MOLB
ATOM 1433 CB ASN 13 71.017 -0.751 52.657 1.00 42.29 MOLB
ATOM 1434 CG ASN 13 70.023 -1.462 51.764 1.00 53.62 MOLB
ATOM 1435 OD1 ASN 13 68.829 -1.540 52.085 1.00 50.26 MOLB
ATOM 1436 ND2 ASN 13 70.502 -1.995 50.641 1.00 57.40 MOLB
ATOM 1437 C ASN 13 71.255 0.999 54.418 1.00 38.42 MOLB
ATOM 1438 O ASN 13 70.851 0.738 55.549 1.00 38.60 MOLB
ATOM 1439 N ILE 14 72.380 1.664 54.214 1.00 35.66 MOLB
ATOM 1440 CA ILE 14 73.144 2.074 55.370 1.00 34.87 MOLB
ATOM 1441 CB ILE 14 74.560 2.496 54.978 1.00 29.94 MOLB
ATOM 1442 CG2 ILE 14 75.310 2.997 56.216 1.00 30.74 MOLB
ATOM 1443 CG1 ILE 14 75.295 1.285 54.401 1.00 30.00 MOLB
ATOM 1444 CD1 ILE 14 75.399 0.109 55.393 1.00 33.36 MOLB
ATOM 1445 C ILE 14 72.435 3.193 56.105 1.00 36.69 MOLB
ATOM 1446 O ILE 14 72.366 3.190 57.339 1.00 36.55 MOLB
ATOM 1447 N SER 15 71.892 4.139 55.342 1.00 35.87 MOLB
ATOM 1448 CA SER 15 71.167 5.247 55.932 1.00 31.96 MOLB
ATOM 1449 CB SER 15 70.625 6.170 54.848 1.00 35.14 MOLB
ATOM 1450 OG SER 15 71.684 6.765 54.134 1.00 38.53 MOLB
ATOM 1451 C SER 15 70.025 4.716 56.788 1.00 31.29 MOLB

ATOM	1452	O	SER	15	69.783	5.242	57.863	1.00	31.51	MOLB
ATOM	1453	N	ARG	16	69.317	3.681	56.334	1.00	31.55	MOLB
ATOM	1454	CA	ARG	16	68.235	3.161	57.177	1.00	38.03	MOLB
ATOM	1455	CB	ARG	16	67.379	2.108	56.468	1.00	37.73	MOLB
ATOM	1456	CG	ARG	16	66.092	1.861	57.236	1.00	36.45	MOLB
ATOM	1457	CD	ARG	16	65.138	0.911	56.546	1.00	34.13	MOLB
ATOM	1458	NE	ARG	16	63.902	0.820	57.309	1.00	34.70	MOLB
ATOM	1459	CZ	ARG	16	62.896	-0.015	57.040	1.00	45.28	MOLB
ATOM	1460	NH1	ARG	16	62.969	-0.853	56.006	1.00	44.92	MOLB
ATOM	1461	NH2	ARG	16	61.816	-0.030	57.821	1.00	38.76	MOLB
ATOM	1462	C	ARG	16	68.802	2.546	58.455	1.00	42.78	MOLB
ATOM	1463	O	ARG	16	68.200	2.653	59.533	1.00	42.37	MOLB
ATOM	1464	N	LYS	17	69.963	1.913	58.339	1.00	35.58	MOLB
ATOM	1465	CA	LYS	17	70.568	1.319	59.508	1.00	41.12	MOLB
ATOM	1466	CB	LYS	17	71.848	0.565	59.135	1.00	43.30	MOLB
ATOM	1467	CG	LYS	17	72.270	-0.414	60.215	1.00	52.87	MOLB
ATOM	1468	CD	LYS	17	73.723	-1.025	60.023	1.00	60.26	MOLB
ATOM	1469	CE	LYS	17	73.965	-2.082	61.156	1.00	64.20	MOLB
ATOM	1470	NZ	LYS	17	75.033	-3.175	60.838	1.00	66.36	MOLB
ATOM	1471	C	LYS	17	70.884	2.468	60.459	1.00	36.64	MOLB
ATOM	1472	O	LYS	17	70.503	2.445	61.629	1.00	38.33	MOLB
ATOM	1473	N	TYR	18	71.571	3.480	59.942	1.00	31.85	MOLB
ATOM	1474	CA	TYR	18	71.913	4.642	60.733	1.00	26.53	MOLB
ATOM	1475	CB	TYR	18	72.508	5.719	59.829	1.00	28.58	MOLB
ATOM	1476	CG	TYR	18	72.796	7.037	60.508	1.00	32.30	MOLB
ATOM	1477	CD1	TYR	18	71.775	7.943	60.775	1.00	35.95	MOLB
ATOM	1478	CE1	TYR	18	72.036	9.159	61.406	1.00	35.63	MOLB
ATOM	1479	CD2	TYR	18	74.087	7.377	60.889	1.00	36.73	MOLB
ATOM	1480	CE2	TYR	18	74.359	8.590	61.525	1.00	36.15	MOLB
ATOM	1481	CZ	TYR	18	73.328	9.476	61.782	1.00	38.03	MOLB
ATOM	1482	OH	TYR	18	73.585	10.664	62.436	1.00	33.27	MOLB
ATOM	1483	C	TYR	18	70.690	5.182	61.466	1.00	35.80	MOLB
ATOM	1484	O	TYR	18	70.769	5.462	62.671	1.00	47.26	MOLB
ATOM	1485	N	CYS	19	69.559	5.313	60.766	1.00	34.20	MOLB
ATOM	1486	CA	CYS	19	68.333	5.850	61.380	1.00	37.73	MOLB
ATOM	1487	C	CYS	19	67.704	4.922	62.406	1.00	33.86	MOLB
ATOM	1488	O	CYS	19	67.258	5.359	63.464	1.00	34.39	MOLB
ATOM	1489	CB	CYS	19	67.258	6.185	60.327	1.00	32.18	MOLB
ATOM	1490	SG	CYS	19	67.525	7.622	59.222	1.00	35.19	MOLB
ATOM	1491	N	GLN	20	67.654	3.639	62.091	1.00	37.00	MOLB
ATOM	1492	CA	GLN	20	67.069	2.682	63.015	1.00	39.67	MOLB
ATOM	1493	CB	GLN	20	66.814	1.361	62.321	1.00	34.40	MOLB
ATOM	1494	CG	GLN	20	65.729	1.439	61.318	1.00	40.13	MOLB
ATOM	1495	CD	GLN	20	65.470	0.103	60.678	1.00	37.46	MOLB
ATOM	1496	OE1	GLN	20	66.398	-0.578	60.232	1.00	45.97	MOLB
ATOM	1497	NE2	GLN	20	64.208	-0.283	60.624	1.00	35.71	MOLB
ATOM	1498	C	GLN	20	67.966	2.437	64.217	1.00	42.81	MOLB
ATOM	1499	O	GLN	20	67.499	2.018	65.274	1.00	40.24	MOLB
ATOM	1500	N	ASN	21	69.252	2.711	64.060	1.00	41.69	MOLB
ATOM	1501	CA	ASN	21	70.172	2.487	65.154	1.00	45.56	MOLB
ATOM	1502	CB	ASN	21	71.603	2.381	64.616	1.00	47.08	MOLB
ATOM	1503	CG	ASN	21	71.841	1.091	63.823	1.00	57.72	MOLB
ATOM	1504	OD1	ASN	21	72.877	0.935	63.173	1.00	60.51	MOLB
ATOM	1505	ND2	ASN	21	70.885	0.159	63.882	1.00	54.98	MOLB
ATOM	1506	C	ASN	21	70.075	3.572	66.221	1.00	47.72	MOLB
ATOM	1507	O	ASN	21	70.231	3.290	67.410	1.00	41.69	MOLB
ATOM	1508	N	ARG	22	69.780	4.803	65.807	1.00	47.09	MOLB
ATOM	1509	CA	ARG	22	69.703	5.917	66.757	1.00	42.59	MOLB
ATOM	1510	CB	ARG	22	70.530	7.100	66.249	1.00	46.74	MOLB
ATOM	1511	CG	ARG	22	71.957	6.744	65.926	1.00	44.25	MOLB
ATOM	1512	CD	ARG	22	72.774	7.935	65.467	1.00	47.73	MOLB
ATOM	1513	NE	ARG	22	74.129	7.769	65.978	1.00	68.10	MOLB
ATOM	1514	CZ	ARG	22	74.912	6.718	65.708	1.00	72.96	MOLB
ATOM	1515	NH1	ARG	22	76.129	6.647	66.236	1.00	71.71	MOLB
ATOM	1516	NH2	ARG	22	74.499	5.749	64.890	1.00	71.11	MOLB
ATOM	1517	C	ARG	22	68.313	6.426	67.064	1.00	38.92	MOLB

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ATOM   1518  O   ARG   22      68.037   6.820  68.185  1.00 38.13      MOLB
ATOM   1519  N   TYR   23      67.439   6.411  66.063  1.00 42.95      MOLB
ATOM   1520  CA  TYR   23      66.083   6.940  66.208  1.00 36.26      MOLB
ATOM   1521  CB  TYR   23      65.971   8.159  65.317  1.00 33.13      MOLB
ATOM   1522  CG  TYR   23      67.244   8.988  65.321  1.00 34.55      MOLB
ATOM   1523  CD1 TYR   23      67.560   9.821  66.405  1.00 39.08      MOLB
ATOM   1524  CE1 TYR   23      68.745  10.585  66.412  1.00 34.39      MOLB
ATOM   1525  CD2 TYR   23      68.143   8.938  64.246  1.00 31.25      MOLB
ATOM   1526  CE2 TYR   23      69.325   9.700  64.247  1.00 29.86      MOLB
ATOM   1527  CZ  TYR   23      69.613  10.517  65.330  1.00 31.40      MOLB
ATOM   1528  OH  TYR   23      70.742  11.289  65.333  1.00 35.71      MOLB
ATOM   1529  C   TYR   23      65.043   5.888  65.841  1.00 36.66      MOLB
ATOM   1530  O   TYR   23      65.174   4.734  66.254  1.00 36.43      MOLB
ATOM   1531  N   THR   24      64.015   6.266  65.082  1.00 37.80      MOLB
ATOM   1532  CA  THR   24      63.015   5.284  64.688  1.00 34.46      MOLB
ATOM   1533  CB  THR   24      61.552   5.844  64.683  1.00 37.54      MOLB
ATOM   1534  OG1 THR   24      61.173   6.346  65.977  1.00 31.50      MOLB
ATOM   1535  CG2 THR   24      60.593   4.728  64.327  1.00 34.99      MOLB
ATOM   1536  C   THR   24      63.302   4.745  63.283  1.00 36.95      MOLB
ATOM   1537  O   THR   24      63.542   3.554  63.111  1.00 38.09      MOLB
ATOM   1538  N   ASP   25      63.281   5.612  62.273  1.00 37.95      MOLB
ATOM   1539  CA  ASP   25      63.496   5.156  60.894  1.00 34.28      MOLB
ATOM   1540  CB  ASP   25      62.278   4.356  60.412  1.00 38.77      MOLB
ATOM   1541  CG  ASP   25      62.663   3.151  59.542  1.00 40.01      MOLB
ATOM   1542  OD1 ASP   25      63.597   3.278  58.721  1.00 42.89      MOLB
ATOM   1543  OD2 ASP   25      62.021   2.088  59.677  1.00 34.99      MOLB
ATOM   1544  C   ASP   25      63.712   6.307  59.929  1.00 39.25      MOLB
ATOM   1545  O   ASP   25      63.776   7.475  60.343  1.00 37.72      MOLB
ATOM   1546  N   LEU   26      63.840   5.981  58.643  1.00 35.62      MOLB
ATOM   1547  CA  LEU   26      63.997   7.023  57.643  1.00 34.23      MOLB
ATOM   1548  CB  LEU   26      64.292   6.424  56.265  1.00 30.06      MOLB
ATOM   1549  CG  LEU   26      65.758   5.967  56.143  1.00 28.34      MOLB
ATOM   1550  CD1 LEU   26      65.994   5.127  54.868  1.00 26.80      MOLB
ATOM   1551  CD2 LEU   26      66.638   7.186  56.169  1.00 26.97      MOLB
ATOM   1552  C   LEU   26      62.660   7.760  57.657  1.00 34.18      MOLB
ATOM   1553  O   LEU   26      61.619   7.131  57.856  1.00 33.39      MOLB
ATOM   1554  N   VAL   27      62.688   9.080  57.456  1.00 30.51      MOLB
ATOM   1555  CA  VAL   27      61.468   9.881  57.508  1.00 33.08      MOLB
ATOM   1556  CB  VAL   27      61.675  11.363  57.090  1.00 27.65      MOLB
ATOM   1557  CG1 VAL   27      62.502  12.075  58.101  1.00 45.98      MOLB
ATOM   1558  CG2 VAL   27      62.319  11.448  55.725  1.00 25.54      MOLB
ATOM   1559  C   VAL   27      60.298   9.414  56.689  1.00 31.33      MOLB
ATOM   1560  O   VAL   27      60.455   8.894  55.575  1.00 33.37      MOLB
ATOM   1561  N   ALA   28      59.131   9.633  57.277  1.00 27.87      MOLB
ATOM   1562  CA  ALA   28      57.840   9.382  56.660  1.00 33.51      MOLB
ATOM   1563  CB  ALA   28      56.926   8.597  57.614  1.00 29.45      MOLB
ATOM   1564  C   ALA   28      57.310  10.819  56.485  1.00 34.72      MOLB
ATOM   1565  O   ALA   28      57.557  11.673  57.336  1.00 29.71      MOLB
ATOM   1566  N   ILE   29      56.602  11.101  55.400  1.00 38.93      MOLB
ATOM   1567  CA  ILE   29      56.073  12.448  55.210  1.00 40.13      MOLB
ATOM   1568  CB  ILE   29      56.631  13.085  53.937  1.00 36.08      MOLB
ATOM   1569  CG2 ILE   29      55.918  14.403  53.670  1.00 41.68      MOLB
ATOM   1570  CG1 ILE   29      58.127  13.337  54.104  1.00 39.35      MOLB
ATOM   1571  CD1 ILE   29      58.826  13.850  52.855  1.00 36.10      MOLB
ATOM   1572  C   ILE   29      54.551  12.384  55.150  1.00 43.61      MOLB
ATOM   1573  O   ILE   29      54.003  11.480  54.532  1.00 46.14      MOLB
ATOM   1574  N   GLN   30      53.864  13.336  55.786  1.00 44.60      MOLB
ATOM   1575  CA  GLN   30      52.390  13.322  55.822  1.00 43.65      MOLB
ATOM   1576  CB  GLN   30      51.900  13.407  57.273  1.00 41.53      MOLB
ATOM   1577  CG  GLN   30      52.502  12.363  58.203  1.00 46.40      MOLB
ATOM   1578  CD  GLN   30      52.010  12.500  59.636  1.00 47.25      MOLB
ATOM   1579  OE1 GLN   30      51.286  11.640  60.143  1.00 42.06      MOLB
ATOM   1580  NE2 GLN   30      52.401  13.587  60.296  1.00 46.18      MOLB
ATOM   1581  C   GLN   30      51.686  14.423  55.040  1.00 40.64      MOLB
ATOM   1582  O   GLN   30      50.585  14.240  54.528  1.00 42.48      MOLB
ATOM   1583  N   ASN   31      52.323  15.573  54.959  1.00 40.12      MOLB
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FOR PERSONAL USE ONLY

ATOM	1584	CA	ASN	31	51.713	16.699	54.290	1.00	39.00	MOLB
ATOM	1585	CB	ASN	31	50.788	17.415	55.278	1.00	34.54	MOLB
ATOM	1586	CG	ASN	31	51.530	17.861	56.528	1.00	41.46	MOLB
ATOM	1587	OD1	ASN	31	52.479	18.642	56.458	1.00	40.38	MOLB
ATOM	1588	ND2	ASN	31	51.115	17.347	57.679	1.00	48.12	MOLB
ATOM	1589	C	ASN	31	52.782	17.665	53.815	1.00	35.28	MOLB
ATOM	1590	O	ASN	31	53.977	17.509	54.087	1.00	37.80	MOLB
ATOM	1591	N	LYS	32	52.318	18.705	53.150	1.00	38.60	MOLB
ATOM	1592	CA	LYS	32	53.187	19.720	52.607	1.00	35.79	MOLB
ATOM	1593	CB	LYS	32	52.390	20.524	51.592	1.00	38.61	MOLB
ATOM	1594	CG	LYS	32	51.830	19.657	50.453	1.00	41.82	MOLB
ATOM	1595	CD	LYS	32	52.951	19.019	49.617	1.00	39.74	MOLB
ATOM	1596	CE	LYS	32	52.472	18.537	48.231	1.00	44.99	MOLB
ATOM	1597	NZ	LYS	32	51.443	17.434	48.218	1.00	40.38	MOLB
ATOM	1598	C	LYS	32	53.819	20.632	53.656	1.00	37.53	MOLB
ATOM	1599	O	LYS	32	54.884	21.200	53.411	1.00	39.79	MOLB
ATOM	1600	N	ASN	33	53.191	20.784	54.824	1.00	36.58	MOLB
ATOM	1601	CA	ASN	33	53.788	21.649	55.839	1.00	38.98	MOLB
ATOM	1602	CB	ASN	33	52.884	21.796	57.069	1.00	42.52	MOLB
ATOM	1603	CG	ASN	33	51.664	22.680	56.799	1.00	45.35	MOLB
ATOM	1604	OD1	ASN	33	51.714	23.619	56.002	1.00	39.05	MOLB
ATOM	1605	ND2	ASN	33	50.575	22.390	57.482	1.00	43.69	MOLB
ATOM	1606	C	ASN	33	55.136	21.074	56.241	1.00	39.36	MOLB
ATOM	1607	O	ASN	33	56.134	21.804	56.317	1.00	34.57	MOLB
ATOM	1608	N	GLU	34	55.158	19.761	56.480	1.00	37.61	MOLB
ATOM	1609	CA	GLU	34	56.377	19.055	56.859	1.00	36.82	MOLB
ATOM	1610	CB	GLU	34	56.074	17.577	57.068	1.00	36.56	MOLB
ATOM	1611	CG	GLU	34	54.980	17.382	58.082	1.00	31.79	MOLB
ATOM	1612	CD	GLU	34	54.604	15.937	58.306	1.00	36.99	MOLB
ATOM	1613	OE1	GLU	34	54.882	15.076	57.438	1.00	34.69	MOLB
ATOM	1614	OE2	GLU	34	53.991	15.678	59.364	1.00	37.69	MOLB
ATOM	1615	C	GLU	34	57.440	19.220	55.791	1.00	42.30	MOLB
ATOM	1616	O	GLU	34	58.605	19.485	56.099	1.00	40.30	MOLB
ATOM	1617	N	ILE	35	57.040	19.075	54.529	1.00	46.45	MOLB
ATOM	1618	CA	ILE	35	57.996	19.220	53.443	1.00	40.85	MOLB
ATOM	1619	CB	ILE	35	57.355	18.946	52.070	1.00	39.52	MOLB
ATOM	1620	CG2	ILE	35	58.347	19.245	50.956	1.00	39.70	MOLB
ATOM	1621	CG1	ILE	35	56.907	17.494	52.011	1.00	36.72	MOLB
ATOM	1622	CD1	ILE	35	56.671	16.997	50.643	1.00	42.54	MOLB
ATOM	1623	C	ILE	35	58.576	20.618	53.462	1.00	39.66	MOLB
ATOM	1624	O	ILE	35	59.788	20.785	53.320	1.00	39.31	MOLB
ATOM	1625	N	ASP	36	57.721	21.619	53.661	1.00	40.06	MOLB
ATOM	1626	CA	ASP	36	58.181	23.008	53.698	1.00	39.70	MOLB
ATOM	1627	CB	ASP	36	57.010	23.980	53.863	1.00	40.43	MOLB
ATOM	1628	CG	ASP	36	57.470	25.431	53.900	1.00	46.45	MOLB
ATOM	1629	OD1	ASP	36	57.886	25.969	52.854	1.00	45.67	MOLB
ATOM	1630	OD2	ASP	36	57.440	26.036	54.985	1.00	45.04	MOLB
ATOM	1631	C	ASP	36	59.153	23.200	54.853	1.00	39.42	MOLB
ATOM	1632	O	ASP	36	60.181	23.861	54.706	1.00	39.22	MOLB
ATOM	1633	N	TYR	37	58.808	22.611	56.000	1.00	38.08	MOLB
ATOM	1634	CA	TYR	37	59.627	22.682	57.208	1.00	39.04	MOLB
ATOM	1635	CB	TYR	37	58.890	22.023	58.378	1.00	38.80	MOLB
ATOM	1636	CG	TYR	37	59.638	22.098	59.685	1.00	43.30	MOLB
ATOM	1637	CD1	TYR	37	59.695	23.281	60.414	1.00	50.91	MOLB
ATOM	1638	CE1	TYR	37	60.436	23.366	61.599	1.00	48.02	MOLB
ATOM	1639	CD2	TYR	37	60.337	21.000	60.171	1.00	49.11	MOLB
ATOM	1640	CE2	TYR	37	61.081	21.076	61.349	1.00	48.05	MOLB
ATOM	1641	CZ	TYR	37	61.127	22.258	62.056	1.00	50.52	MOLB
ATOM	1642	OH	TYR	37	61.879	22.332	63.210	1.00	53.10	MOLB
ATOM	1643	C	TYR	37	60.994	22.010	57.040	1.00	36.67	MOLB
ATOM	1644	O	TYR	37	62.026	22.583	57.383	1.00	41.96	MOLB
ATOM	1645	N	LEU	38	61.002	20.784	56.538	1.00	36.19	MOLB
ATOM	1646	CA	LEU	38	62.260	20.070	56.359	1.00	36.84	MOLB
ATOM	1647	CB	LEU	38	62.006	18.666	55.825	1.00	33.84	MOLB
ATOM	1648	CG	LEU	38	61.256	17.746	56.789	1.00	39.24	MOLB
ATOM	1649	CD1	LEU	38	60.596	16.604	56.010	1.00	29.55	MOLB

ATOM	1650	CD2	LEU	38	62.226	17.228	57.861	1.00	33.38	MOLB
ATOM	1651	C	LEU	38	63.140	20.832	55.391	1.00	40.55	MOLB
ATOM	1652	O	LEU	38	64.355	20.953	55.601	1.00	42.20	MOLB
ATOM	1653	N	ASN	39	62.533	21.365	54.335	1.00	42.59	MOLB
ATOM	1654	CA	ASN	39	63.304	22.105	53.344	1.00	41.51	MOLB
ATOM	1655	CB	ASN	39	62.437	22.498	52.157	1.00	38.98	MOLB
ATOM	1656	CG	ASN	39	63.245	23.131	51.050	1.00	45.52	MOLB
ATOM	1657	OD1	ASN	39	64.044	22.460	50.381	1.00	36.58	MOLB
ATOM	1658	ND2	ASN	39	63.062	24.435	50.859	1.00	39.07	MOLB
ATOM	1659	C	ASN	39	64.000	23.348	53.892	1.00	41.61	MOLB
ATOM	1660	O	ASN	39	65.028	23.756	53.367	1.00	47.07	MOLB
ATOM	1661	N	LYS	40	63.472	23.961	54.941	1.00	42.50	MOLB
ATOM	1662	CA	LYS	40	64.163	25.128	55.468	1.00	49.21	MOLB
ATOM	1663	CB	LYS	40	63.170	26.222	55.887	1.00	50.74	MOLB
ATOM	1664	CG	LYS	40	62.031	25.758	56.764	1.00	57.15	MOLB
ATOM	1665	CD	LYS	40	60.694	26.364	56.312	1.00	57.71	MOLB
ATOM	1666	CE	LYS	40	60.702	27.887	56.310	1.00	55.84	MOLB
ATOM	1667	NZ	LYS	40	59.515	28.414	55.568	1.00	52.41	MOLB
ATOM	1668	C	LYS	40	65.119	24.810	56.608	1.00	49.77	MOLB
ATOM	1669	O	LYS	40	66.175	25.440	56.708	1.00	50.46	MOLB
ATOM	1670	N	VAL	41	64.789	23.832	57.455	1.00	44.80	MOLB
ATOM	1671	CA	VAL	41	65.692	23.516	58.567	1.00	47.89	MOLB
ATOM	1672	CB	VAL	41	64.967	22.760	59.725	1.00	52.09	MOLB
ATOM	1673	CG1	VAL	41	63.806	23.586	60.262	1.00	48.72	MOLB
ATOM	1674	CG2	VAL	41	64.486	21.413	59.248	1.00	51.96	MOLB
ATOM	1675	C	VAL	41	66.943	22.711	58.178	1.00	48.73	MOLB
ATOM	1676	O	VAL	41	68.035	22.978	58.677	1.00	50.03	MOLB
ATOM	1677	N	LEU	42	66.794	21.739	57.283	1.00	44.98	MOLB
ATOM	1678	CA	LEU	42	67.921	20.911	56.879	1.00	41.09	MOLB
ATOM	1679	CB	LEU	42	67.425	19.732	56.049	1.00	43.91	MOLB
ATOM	1680	CG	LEU	42	66.538	18.792	56.871	1.00	44.24	MOLB
ATOM	1681	CD1	LEU	42	65.966	17.708	55.985	1.00	35.33	MOLB
ATOM	1682	CD2	LEU	42	67.368	18.199	58.024	1.00	33.93	MOLB
ATOM	1683	C	LEU	42	68.966	21.672	56.103	1.00	39.37	MOLB
ATOM	1684	O	LEU	42	68.645	22.506	55.271	1.00	38.59	MOLB
ATOM	1685	N	PRO	43	70.242	21.403	56.374	1.00	40.79	MOLB
ATOM	1686	CD	PRO	43	70.825	20.604	57.466	1.00	40.37	MOLB
ATOM	1687	CA	PRO	43	71.284	22.115	55.640	1.00	42.35	MOLB
ATOM	1688	CB	PRO	43	72.519	21.903	56.503	1.00	40.07	MOLB
ATOM	1689	CG	PRO	43	72.285	20.537	57.065	1.00	39.30	MOLB
ATOM	1690	C	PRO	43	71.444	21.507	54.267	1.00	47.71	MOLB
ATOM	1691	O	PRO	43	71.139	20.332	54.067	1.00	48.64	MOLB
ATOM	1692	N	TYR	44	71.921	22.308	53.322	1.00	48.96	MOLB
ATOM	1693	CA	TYR	44	72.140	21.842	51.960	1.00	46.25	MOLB
ATOM	1694	CB	TYR	44	72.356	23.032	51.016	1.00	47.70	MOLB
ATOM	1695	CG	TYR	44	72.800	22.615	49.620	1.00	44.12	MOLB
ATOM	1696	CD1	TYR	44	71.898	22.061	48.713	1.00	37.88	MOLB
ATOM	1697	CE1	TYR	44	72.321	21.599	47.473	1.00	43.30	MOLB
ATOM	1698	CD2	TYR	44	74.136	22.700	49.242	1.00	43.75	MOLB
ATOM	1699	CE2	TYR	44	74.568	22.239	48.005	1.00	44.50	MOLB
ATOM	1700	CZ	TYR	44	73.664	21.689	47.128	1.00	45.58	MOLB
ATOM	1701	OH	TYR	44	74.111	21.200	45.919	1.00	48.80	MOLB
ATOM	1702	C	TYR	44	73.344	20.919	51.809	1.00	43.33	MOLB
ATOM	1703	O	TYR	44	74.414	21.199	52.342	1.00	46.23	MOLB
ATOM	1704	N	TYR	45	73.155	19.840	51.057	1.00	43.10	MOLB
ATOM	1705	CA	TYR	45	74.209	18.876	50.737	1.00	40.72	MOLB
ATOM	1706	CB	TYR	45	74.120	17.606	51.591	1.00	48.17	MOLB
ATOM	1707	CG	TYR	45	74.537	17.760	53.043	1.00	49.59	MOLB
ATOM	1708	CD1	TYR	45	75.819	18.194	53.385	1.00	46.54	MOLB
ATOM	1709	CE1	TYR	45	76.221	18.266	54.724	1.00	47.43	MOLB
ATOM	1710	CD2	TYR	45	73.662	17.407	54.078	1.00	45.53	MOLB
ATOM	1711	CE2	TYR	45	74.052	17.473	55.409	1.00	45.58	MOLB
ATOM	1712	CZ	TYR	45	75.325	17.901	55.727	1.00	45.16	MOLB
ATOM	1713	OH	TYR	45	75.692	17.976	57.049	1.00	48.96	MOLB
ATOM	1714	C	TYR	45	73.937	18.503	49.296	1.00	46.21	MOLB
ATOM	1715	O	TYR	45	72.789	18.207	48.933	1.00	44.90	MOLB

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ATOM   1716  N   SER    46      74.981  18.494  48.473  1.00 46.87      MOLB
ATOM   1717  CA  SER    46      74.806  18.191  47.061  1.00 42.54      MOLB
ATOM   1718  CB  SER    46      76.101  18.501  46.307  1.00 44.90      MOLB
ATOM   1719  OG  SER    46      77.199  17.836  46.888  1.00 45.54      MOLB
ATOM   1720  C   SER    46      74.329  16.772  46.727  1.00 45.56      MOLB
ATOM   1721  O   SER    46      73.873  16.519  45.602  1.00 38.93      MOLB
ATOM   1722  N   SER    47      74.433  15.846  47.683  1.00 44.64      MOLB
ATOM   1723  CA  SER    47      73.998  14.467  47.444  1.00 42.86      MOLB
ATOM   1724  CB  SER    47      74.862  13.495  48.246  1.00 46.98      MOLB
ATOM   1725  OG  SER    47      76.245  13.675  47.958  1.00 55.98      MOLB
ATOM   1726  C   SER    47      72.535  14.328  47.859  1.00 43.49      MOLB
ATOM   1727  O   SER    47      71.886  13.303  47.615  1.00 37.15      MOLB
ATOM   1728  N   TYR    48      72.029  15.386  48.483  1.00 39.10      MOLB
ATOM   1729  CA  TYR    48      70.658  15.423  48.960  1.00 42.55      MOLB
ATOM   1730  CB  TYR    48      69.684  15.338  47.769  1.00 44.33      MOLB
ATOM   1731  CG  TYR    48      69.771  16.568  46.884  1.00 47.71      MOLB
ATOM   1732  CD1 TYR    48      69.316  17.823  47.332  1.00 44.10      MOLB
ATOM   1733  CE1 TYR    48      69.488  18.972  46.552  1.00 50.38      MOLB
ATOM   1734  CD2 TYR    48      70.389  16.502  45.633  1.00 52.33      MOLB
ATOM   1735  CE2 TYR    48      70.568  17.646  44.845  1.00 50.27      MOLB
ATOM   1736  CZ  TYR    48      70.123  18.874  45.303  1.00 54.69      MOLB
ATOM   1737  OH  TYR    48      70.341  19.987  44.510  1.00 56.05      MOLB
ATOM   1738  C   TYR    48      70.392  14.351  50.023  1.00 37.10      MOLB
ATOM   1739  O   TYR    48      71.329  13.788  50.579  1.00 34.93      MOLB
ATOM   1740  N   TYR    49      69.126  14.074  50.307  1.00 37.58      MOLB
ATOM   1741  CA  TYR    49      68.775  13.133  51.365  1.00 36.34      MOLB
ATOM   1742  CB  TYR    49      68.051  13.871  52.508  1.00 32.15      MOLB
ATOM   1743  CG  TYR    49      68.776  15.007  53.184  1.00 34.87      MOLB
ATOM   1744  CD1 TYR    49      69.065  16.191  52.497  1.00 41.33      MOLB
ATOM   1745  CE1 TYR    49      69.673  17.298  53.153  1.00 38.42      MOLB
ATOM   1746  CD2 TYR    49      69.114  14.931  54.543  1.00 32.91      MOLB
ATOM   1747  CE2 TYR    49      69.722  16.019  55.207  1.00 33.19      MOLB
ATOM   1748  CZ  TYR    49      69.995  17.202  54.506  1.00 39.57      MOLB
ATOM   1749  OH  TYR    49      70.554  18.287  55.153  1.00 38.79      MOLB
ATOM   1750  C   TYR    49      67.874  11.966  50.963  1.00 39.67      MOLB
ATOM   1751  O   TYR    49      67.041  12.096  50.075  1.00 47.17      MOLB
ATOM   1752  N   TRP    50      68.027  10.838  51.650  1.00 36.36      MOLB
ATOM   1753  CA  TRP    50      67.177   9.675  51.410  1.00 39.58      MOLB
ATOM   1754  CB  TRP    50      67.908   8.371  51.775  1.00 36.93      MOLB
ATOM   1755  CG  TRP    50      68.935   7.918  50.805  1.00 41.78      MOLB
ATOM   1756  CD2 TRP    50      68.750   7.670  49.410  1.00 48.59      MOLB
ATOM   1757  CE2 TRP    50      69.989   7.227  48.899  1.00 52.11      MOLB
ATOM   1758  CE3 TRP    50      67.657   7.777  48.539  1.00 47.54      MOLB
ATOM   1759  CD1 TRP    50      70.236   7.624  51.074  1.00 45.21      MOLB
ATOM   1760  NE1 TRP    50      70.878   7.210  49.940  1.00 43.63      MOLB
ATOM   1761  CZ2 TRP    50      70.168   6.888  47.550  1.00 51.17      MOLB
ATOM   1762  CZ3 TRP    50      67.834   7.442  47.203  1.00 50.60      MOLB
ATOM   1763  CH2 TRP    50      69.082   7.002  46.722  1.00 49.80      MOLB
ATOM   1764  C   TRP    50      65.961   9.818  52.336  1.00 37.08      MOLB
ATOM   1765  O   TRP    50      66.092  10.309  53.463  1.00 36.65      MOLB
ATOM   1766  N   ILE    51      64.782   9.414  51.876  1.00 34.49      MOLB
ATOM   1767  CA  ILE    51      63.612   9.478  52.747  1.00 38.95      MOLB
ATOM   1768  CB  ILE    51      62.506  10.402  52.204  1.00 36.70      MOLB
ATOM   1769  CG2 ILE    51      63.048  11.843  52.098  1.00 22.42      MOLB
ATOM   1770  CG1 ILE    51      61.978   9.878  50.873  1.00 28.81      MOLB
ATOM   1771  CD1 ILE    51      60.788  10.686  50.354  1.00 38.35      MOLB
ATOM   1772  C   ILE    51      63.105   8.055  52.885  1.00 41.61      MOLB
ATOM   1773  O   ILE    51      63.470   7.201  52.089  1.00 42.07      MOLB
ATOM   1774  N   GLY    52      62.282   7.793  53.896  1.00 45.45      MOLB
ATOM   1775  CA  GLY    52      61.808   6.435  54.125  1.00 42.39      MOLB
ATOM   1776  C   GLY    52      60.634   5.932  53.325  1.00 40.25      MOLB
ATOM   1777  O   GLY    52      59.610   5.574  53.892  1.00 49.40      MOLB
ATOM   1778  N   ILE    53      60.778   5.868  52.011  1.00 42.63      MOLB
ATOM   1779  CA  ILE    53      59.677   5.419  51.171  1.00 42.72      MOLB
ATOM   1780  CB  ILE    53      58.929   6.641  50.590  1.00 42.83      MOLB
ATOM   1781  CG2 ILE    53      59.769   7.309  49.523  1.00 41.90      MOLB
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ATOM	1782	CG1	ILE	53	57.576	6.210	50.020	1.00	43.76	MOLB
ATOM	1783	CD1	ILE	53	56.761	7.365	49.508	1.00	45.66	MOLB
ATOM	1784	C	ILE	53	60.156	4.495	50.038	1.00	43.04	MOLB
ATOM	1785	O	ILE	53	61.166	4.764	49.379	1.00	40.64	MOLB
ATOM	1786	N	ARG	54	59.421	3.403	49.838	1.00	39.49	MOLB
ATOM	1787	CA	ARG	54	59.749	2.407	48.822	1.00	46.33	MOLB
ATOM	1788	CB	ARG	54	60.377	1.164	49.482	1.00	35.49	MOLB
ATOM	1789	CG	ARG	54	61.701	1.441	50.175	1.00	38.40	MOLB
ATOM	1790	CD	ARG	54	62.688	2.035	49.206	1.00	41.09	MOLB
ATOM	1791	NE	ARG	54	63.074	1.052	48.206	1.00	43.61	MOLB
ATOM	1792	CZ	ARG	54	64.111	0.230	48.333	1.00	51.10	MOLB
ATOM	1793	NH1	ARG	54	64.879	0.283	49.419	1.00	40.90	MOLB
ATOM	1794	NH2	ARG	54	64.358	-0.673	47.386	1.00	44.82	MOLB
ATOM	1795	C	ARG	54	58.529	1.991	47.994	1.00	51.24	MOLB
ATOM	1796	O	ARG	54	57.385	2.176	48.419	1.00	48.39	MOLB
ATOM	1797	N	LYS	55	58.787	1.406	46.824	1.00	56.01	MOLB
ATOM	1798	CA	LYS	55	57.733	0.977	45.909	1.00	62.57	MOLB
ATOM	1799	CB	LYS	55	58.119	1.404	44.489	1.00	62.11	MOLB
ATOM	1800	CG	LYS	55	57.034	1.306	43.416	1.00	64.61	MOLB
ATOM	1801	CD	LYS	55	57.686	1.490	42.031	1.00	62.65	MOLB
ATOM	1802	CE	LYS	55	56.680	1.579	40.881	1.00	70.67	MOLB
ATOM	1803	NZ	LYS	55	56.143	2.966	40.638	1.00	72.62	MOLB
ATOM	1804	C	LYS	55	57.499	-0.542	45.965	1.00	66.22	MOLB
ATOM	1805	O	LYS	55	58.440	-1.334	45.878	1.00	66.56	MOLB
ATOM	1806	N	ASN	56	56.236	-0.925	46.138	1.00	72.08	MOLB
ATOM	1807	CA	ASN	56	55.791	-2.328	46.183	1.00	77.20	MOLB
ATOM	1808	CB	ASN	56	55.161	-2.626	47.542	1.00	78.18	MOLB
ATOM	1809	CG	ASN	56	56.028	-2.152	48.693	1.00	85.76	MOLB
ATOM	1810	OD1	ASN	56	55.549	-1.960	49.814	1.00	86.79	MOLB
ATOM	1811	ND2	ASN	56	57.318	-1.966	48.423	1.00	84.99	MOLB
ATOM	1812	C	ASN	56	54.732	-2.398	45.070	1.00	77.42	MOLB
ATOM	1813	O	ASN	56	53.676	-1.767	45.175	1.00	77.98	MOLB
ATOM	1814	N	ASN	57	55.019	-3.170	44.023	1.00	76.31	MOLB
ATOM	1815	CA	ASN	57	54.164	-3.291	42.827	1.00	77.06	MOLB
ATOM	1816	CB	ASN	57	52.727	-3.781	43.116	1.00	74.37	MOLB
ATOM	1817	CG	ASN	57	52.424	-3.901	44.594	1.00	72.57	MOLB
ATOM	1818	OD1	ASN	57	53.147	-4.644	45.329	1.00	69.65	MOLB
ATOM	1819	ND2	ASN	57	51.344	-3.181	45.077	1.00	58.79	MOLB
ATOM	1820	C	ASN	57	54.083	-1.927	42.167	1.00	75.80	MOLB
ATOM	1821	O	ASN	57	54.835	-1.624	41.239	1.00	72.77	MOLB
ATOM	1822	N	LYS	58	53.160	-1.109	42.659	1.00	76.56	MOLB
ATOM	1823	CA	LYS	58	52.969	0.236	42.139	1.00	78.61	MOLB
ATOM	1824	CB	LYS	58	51.956	0.216	40.985	1.00	82.08	MOLB
ATOM	1825	CG	LYS	58	52.454	-0.539	39.751	1.00	84.23	MOLB
ATOM	1826	CD	LYS	58	51.308	-1.036	38.891	1.00	86.13	MOLB
ATOM	1827	CE	LYS	58	51.403	-2.538	38.696	1.00	87.55	MOLB
ATOM	1828	NZ	LYS	58	51.420	-3.274	40.000	1.00	87.37	MOLB
ATOM	1829	C	LYS	58	52.488	1.139	43.271	1.00	76.45	MOLB
ATOM	1830	O	LYS	58	52.008	2.252	43.028	1.00	79.16	MOLB
ATOM	1831	N	THR	59	52.632	0.654	44.508	1.00	71.14	MOLB
ATOM	1832	CA	THR	59	52.225	1.413	45.692	1.00	64.92	MOLB
ATOM	1833	CB	THR	59	51.199	0.628	46.545	1.00	63.19	MOLB
ATOM	1834	OG1	THR	59	50.076	0.264	45.729	1.00	69.25	MOLB
ATOM	1835	CG2	THR	59	50.702	1.488	47.698	1.00	53.55	MOLB
ATOM	1836	C	THR	59	53.401	1.813	46.596	1.00	62.83	MOLB
ATOM	1837	O	THR	59	54.080	0.971	47.199	1.00	61.29	MOLB
ATOM	1838	N	TRP	60	53.643	3.112	46.678	1.00	57.58	MOLB
ATOM	1839	CA	TRP	60	54.711	3.608	47.518	1.00	51.85	MOLB
ATOM	1840	CB	TRP	60	55.090	5.028	47.110	1.00	42.52	MOLB
ATOM	1841	CG	TRP	60	55.595	5.116	45.709	1.00	49.61	MOLB
ATOM	1842	CD2	TRP	60	56.961	5.007	45.283	1.00	51.56	MOLB
ATOM	1843	CE2	TRP	60	56.969	5.142	43.875	1.00	45.83	MOLB
ATOM	1844	CE3	TRP	60	58.182	4.811	45.956	1.00	45.70	MOLB
ATOM	1845	CD1	TRP	60	54.852	5.304	44.573	1.00	45.23	MOLB
ATOM	1846	NE1	TRP	60	55.670	5.323	43.473	1.00	48.81	MOLB
ATOM	1847	CZ2	TRP	60	58.147	5.089	43.125	1.00	47.81	MOLB

ATOM	1848	CZ3	TRP	60	59.355	4.760	45.210	1.00	42.70	MOLB
ATOM	1849	CH2	TRP	60	59.328	4.898	43.807	1.00	50.98	MOLB
ATOM	1850	C	TRP	60	54.211	3.593	48.961	1.00	49.40	MOLB
ATOM	1851	O	TRP	60	53.130	4.098	49.255	1.00	48.40	MOLB
ATOM	1852	N	THR	61	55.000	3.000	49.852	1.00	42.89	MOLB
ATOM	1853	CA	THR	61	54.640	2.927	51.255	1.00	42.96	MOLB
ATOM	1854	CB	THR	61	54.281	1.491	51.655	1.00	44.95	MOLB
ATOM	1855	OG1	THR	61	53.210	1.027	50.825	1.00	55.26	MOLB
ATOM	1856	CG2	THR	61	53.855	1.431	53.118	1.00	45.94	MOLB
ATOM	1857	C	THR	61	55.808	3.402	52.113	1.00	44.31	MOLB
ATOM	1858	O	THR	61	56.968	3.056	51.855	1.00	40.96	MOLB
ATOM	1859	N	TRP	62	55.502	4.213	53.121	1.00	41.28	MOLB
ATOM	1860	CA	TRP	62	56.532	4.710	54.012	1.00	43.26	MOLB
ATOM	1861	CB	TRP	62	55.982	5.861	54.873	1.00	45.35	MOLB
ATOM	1862	CG	TRP	62	55.481	7.037	54.056	1.00	37.69	MOLB
ATOM	1863	CD2	TRP	62	56.281	8.057	53.441	1.00	32.27	MOLB
ATOM	1864	CE2	TRP	62	55.400	8.928	52.759	1.00	38.20	MOLB
ATOM	1865	CE3	TRP	62	57.654	8.318	53.399	1.00	31.24	MOLB
ATOM	1866	CD1	TRP	62	54.183	7.320	53.732	1.00	32.42	MOLB
ATOM	1867	NE1	TRP	62	54.126	8.459	52.952	1.00	34.89	MOLB
ATOM	1868	CZ2	TRP	62	55.856	10.049	52.036	1.00	40.51	MOLB
ATOM	1869	CZ3	TRP	62	58.106	9.432	52.679	1.00	37.85	MOLB
ATOM	1870	CH2	TRP	62	57.209	10.280	52.010	1.00	35.77	MOLB
ATOM	1871	C	TRP	62	56.965	3.523	54.880	1.00	41.02	MOLB
ATOM	1872	O	TRP	62	56.157	2.933	55.597	1.00	38.50	MOLB
ATOM	1873	N	VAL	63	58.247	3.185	54.801	1.00	36.29	MOLB
ATOM	1874	CA	VAL	63	58.795	2.049	55.530	1.00	36.45	MOLB
ATOM	1875	CB	VAL	63	60.278	1.855	55.155	1.00	40.34	MOLB
ATOM	1876	CG1	VAL	63	60.427	1.911	53.643	1.00	32.52	MOLB
ATOM	1877	CG2	VAL	63	61.145	2.939	55.802	1.00	33.46	MOLB
ATOM	1878	C	VAL	63	58.658	2.112	57.056	1.00	41.99	MOLB
ATOM	1879	O	VAL	63	58.455	1.084	57.702	1.00	43.64	MOLB
ATOM	1880	N	GLY	64	58.764	3.309	57.632	1.00	39.34	MOLB
ATOM	1881	CA	GLY	64	58.657	3.434	59.077	1.00	36.91	MOLB
ATOM	1882	C	GLY	64	57.239	3.474	59.626	1.00	43.34	MOLB
ATOM	1883	O	GLY	64	57.025	3.179	60.801	1.00	40.87	MOLB
ATOM	1884	N	THR	65	56.259	3.829	58.797	1.00	38.43	MOLB
ATOM	1885	CA	THR	65	54.897	3.908	59.295	1.00	45.32	MOLB
ATOM	1886	CB	THR	65	54.298	5.321	59.100	1.00	46.40	MOLB
ATOM	1887	OG1	THR	65	54.325	5.673	57.710	1.00	51.70	MOLB
ATOM	1888	CG2	THR	65	55.093	6.350	59.889	1.00	47.61	MOLB
ATOM	1889	C	THR	65	53.979	2.898	58.644	1.00	47.87	MOLB
ATOM	1890	O	THR	65	52.870	2.681	59.120	1.00	48.61	MOLB
ATOM	1891	N	LYS	66	54.443	2.283	57.559	1.00	47.21	MOLB
ATOM	1892	CA	LYS	66	53.649	1.283	56.847	1.00	53.84	MOLB
ATOM	1893	CB	LYS	66	53.157	0.198	57.820	1.00	50.58	MOLB
ATOM	1894	CG	LYS	66	54.053	-1.029	57.935	1.00	56.37	MOLB
ATOM	1895	CD	LYS	66	55.497	-0.707	58.291	1.00	59.76	MOLB
ATOM	1896	CE	LYS	66	56.348	-1.984	58.319	1.00	68.93	MOLB
ATOM	1897	NZ	LYS	66	57.814	-1.707	58.351	1.00	67.14	MOLB
ATOM	1898	C	LYS	66	52.447	1.892	56.130	1.00	54.42	MOLB
ATOM	1899	O	LYS	66	51.587	1.160	55.633	1.00	60.92	MOLB
ATOM	1900	N	LYS	67	52.374	3.221	56.080	1.00	52.55	MOLB
ATOM	1901	CA	LYS	67	51.246	3.887	55.422	1.00	45.42	MOLB
ATOM	1902	CB	LYS	67	50.934	5.234	56.094	1.00	45.84	MOLB
ATOM	1903	CG	LYS	67	50.578	5.156	57.605	1.00	51.60	MOLB
ATOM	1904	CD	LYS	67	50.109	6.532	58.133	1.00	53.98	MOLB
ATOM	1905	CE	LYS	67	50.006	6.587	59.655	1.00	52.15	MOLB
ATOM	1906	NZ	LYS	67	48.989	5.661	60.231	1.00	58.22	MOLB
ATOM	1907	C	LYS	67	51.490	4.107	53.933	1.00	41.66	MOLB
ATOM	1908	O	LYS	67	52.631	4.302	53.491	1.00	41.01	MOLB
ATOM	1909	N	ALA	68	50.411	4.058	53.158	1.00	40.92	MOLB
ATOM	1910	CA	ALA	68	50.493	4.263	51.718	1.00	41.36	MOLB
ATOM	1911	CB	ALA	68	49.243	3.706	51.043	1.00	39.89	MOLB
ATOM	1912	C	ALA	68	50.627	5.755	51.424	1.00	40.24	MOLB
ATOM	1913	O	ALA	68	50.268	6.593	52.238	1.00	44.58	MOLB

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ATOM   1914  N   LEU   69      51.146   6.083  50.254  1.00 40.03      MOLB
ATOM   1915  CA  LEU   69      51.312   7.472  49.858  1.00 42.60      MOLB
ATOM   1916  CB  LEU   69      52.147   7.531  48.573  1.00 37.76      MOLB
ATOM   1917  CG  LEU   69      52.546   8.872  47.960  1.00 44.17      MOLB
ATOM   1918  CD1 LEU   69      53.459   9.644  48.905  1.00 40.31      MOLB
ATOM   1919  CD2 LEU   69      53.245   8.616  46.633  1.00 37.91      MOLB
ATOM   1920  C   LEU   69      49.942   8.120  49.627  1.00 48.45      MOLB
ATOM   1921  O   LEU   69      49.048   7.507  49.026  1.00 45.50      MOLB
ATOM   1922  N   THR   70      49.774   9.346  50.127  1.00 51.62      MOLB
ATOM   1923  CA  THR   70      48.522  10.096  49.945  1.00 49.79      MOLB
ATOM   1924  CB  THR   70      48.039  10.771  51.229  1.00 46.87      MOLB
ATOM   1925  OG1 THR   70      49.052  11.682  51.687  1.00 47.64      MOLB
ATOM   1926  CG2 THR   70      47.720   9.745  52.292  1.00 37.52      MOLB
ATOM   1927  C   THR   70      48.834  11.227  48.992  1.00 51.57      MOLB
ATOM   1928  O   THR   70      50.002  11.465  48.678  1.00 50.97      MOLB
ATOM   1929  N   ASN   71      47.803  11.928  48.533  1.00 51.70      MOLB
ATOM   1930  CA  ASN   71      48.037  13.062  47.648  1.00 52.69      MOLB
ATOM   1931  CB  ASN   71      46.751  13.480  46.947  1.00 55.81      MOLB
ATOM   1932  CG  ASN   71      46.237  12.410  46.019  1.00 65.70      MOLB
ATOM   1933  OD1 ASN   71      46.968  11.949  45.135  1.00 69.04      MOLB
ATOM   1934  ND2 ASN   71      44.978  12.002  46.205  1.00 63.08      MOLB
ATOM   1935  C   ASN   71      48.567  14.213  48.489  1.00 47.51      MOLB
ATOM   1936  O   ASN   71      49.372  15.005  48.023  1.00 50.48      MOLB
ATOM   1937  N   GLU   72      48.110  14.297  49.735  1.00 48.60      MOLB
ATOM   1938  CA  GLU   72      48.551  15.356  50.641  1.00 50.19      MOLB
ATOM   1939  CB  GLU   72      47.937  15.192  52.042  1.00 51.69      MOLB
ATOM   1940  CG  GLU   72      46.440  15.428  52.141  1.00 59.13      MOLB
ATOM   1941  CD  GLU   72      45.629  14.358  51.432  1.00 62.54      MOLB
ATOM   1942  OE1 GLU   72      45.788  13.165  51.772  1.00 62.44      MOLB
ATOM   1943  OE2 GLU   72      44.831  14.707  50.537  1.00 67.23      MOLB
ATOM   1944  C   GLU   72      50.069  15.337  50.774  1.00 46.83      MOLB
ATOM   1945  O   GLU   72      50.703  16.389  50.774  1.00 42.10      MOLB
ATOM   1946  N   ALA   73      50.645  14.139  50.886  1.00 44.40      MOLB
ATOM   1947  CA  ALA   73      52.096  14.007  51.034  1.00 43.28      MOLB
ATOM   1948  CB  ALA   73      52.428  12.766  51.876  1.00 47.12      MOLB
ATOM   1949  C   ALA   73      52.884  13.954  49.729  1.00 39.41      MOLB
ATOM   1950  O   ALA   73      54.015  14.434  49.682  1.00 39.10      MOLB
ATOM   1951  N   GLU   74      52.301  13.371  48.680  1.00 41.12      MOLB
ATOM   1952  CA  GLU   74      52.984  13.229  47.384  1.00 42.25      MOLB
ATOM   1953  CB  GLU   74      52.002  12.687  46.331  1.00 41.99      MOLB
ATOM   1954  CG  GLU   74      52.566  12.544  44.914  1.00 46.40      MOLB
ATOM   1955  CD  GLU   74      52.517  13.840  44.117  1.00 52.05      MOLB
ATOM   1956  OE1 GLU   74      51.413  14.427  44.028  1.00 57.63      MOLB
ATOM   1957  OE2 GLU   74      53.571  14.267  43.577  1.00 45.49      MOLB
ATOM   1958  C   GLU   74      53.641  14.524  46.897  1.00 39.07      MOLB
ATOM   1959  O   GLU   74      52.995  15.561  46.848  1.00 39.09      MOLB
ATOM   1960  N   ASN   75      54.926  14.458  46.551  1.00 35.80      MOLB
ATOM   1961  CA  ASN   75      55.653  15.633  46.085  1.00 36.50      MOLB
ATOM   1962  CB  ASN   75      56.305  16.357  47.269  1.00 36.99      MOLB
ATOM   1963  CG  ASN   75      56.633  17.798  46.952  1.00 38.40      MOLB
ATOM   1964  OD1 ASN   75      55.766  18.555  46.540  1.00 46.87      MOLB
ATOM   1965  ND2 ASN   75      57.887  18.185  47.139  1.00 42.14      MOLB
ATOM   1966  C   ASN   75      56.725  15.317  45.030  1.00 38.88      MOLB
ATOM   1967  O   ASN   75      57.814  15.903  45.034  1.00 38.85      MOLB
ATOM   1968  N   TRP   76      56.418  14.396  44.124  1.00 38.12      MOLB
ATOM   1969  CA  TRP   76      57.343  14.033  43.052  1.00 40.98      MOLB
ATOM   1970  CB  TRP   76      56.671  13.030  42.108  1.00 37.29      MOLB
ATOM   1971  CG  TRP   76      56.302  11.733  42.737  1.00 39.19      MOLB
ATOM   1972  CD2 TRP   76      57.204  10.719  43.184  1.00 37.17      MOLB
ATOM   1973  CE2 TRP   76      56.421   9.650  43.676  1.00 41.29      MOLB
ATOM   1974  CE3 TRP   76      58.601  10.610  43.216  1.00 38.92      MOLB
ATOM   1975  CD1 TRP   76      55.039  11.255  42.972  1.00 39.26      MOLB
ATOM   1976  NE1 TRP   76      55.102  10.002  43.531  1.00 39.34      MOLB
ATOM   1977  CZ2 TRP   76      56.992   8.484  44.197  1.00 46.16      MOLB
ATOM   1978  CZ3 TRP   76      59.167   9.457  43.728  1.00 40.72      MOLB
ATOM   1979  CH2 TRP   76      58.362   8.404  44.214  1.00 46.28      MOLB
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PROVISIONAL DRAWING

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ATOM   1980  C   TRP   76      57.791  15.254  42.224  1.00 42.88      MOLB
ATOM   1981  O   TRP   76      56.990  16.148  41.906  1.00 46.85      MOLB
ATOM   1982  N   ALA   77      59.072  15.304  41.881  1.00 47.68      MOLB
ATOM   1983  CA  ALA   77      59.580  16.389  41.041  1.00 46.00      MOLB
ATOM   1984  CB  ALA   77      61.101  16.359  40.988  1.00 46.07      MOLB
ATOM   1985  C   ALA   77      59.019  16.115  39.649  1.00 51.17      MOLB
ATOM   1986  O   ALA   77      58.553  14.996  39.368  1.00 46.36      MOLB
ATOM   1987  N   ASP   78      59.056  17.119  38.777  1.00 52.67      MOLB
ATOM   1988  CA  ASP   78      58.544  16.925  37.420  1.00 55.71      MOLB
ATOM   1989  CB  ASP   78      58.809  18.155  36.538  1.00 54.52      MOLB
ATOM   1990  CG  ASP   78      57.953  19.344  36.916  1.00 54.18      MOLB
ATOM   1991  OD1 ASP   78      56.758  19.143  37.238  1.00 54.72      MOLB
ATOM   1992  OD2 ASP   78      58.473  20.480  36.877  1.00 51.66      MOLB
ATOM   1993  C   ASP   78      59.210  15.716  36.774  1.00 55.60      MOLB
ATOM   1994  O   ASP   78      60.436  15.584  36.824  1.00 58.62      MOLB
ATOM   1995  N   ASN   79      58.399  14.835  36.188  1.00 52.69      MOLB
ATOM   1996  CA  ASN   79      58.894  13.640  35.497  1.00 53.65      MOLB
ATOM   1997  CB  ASN   79      60.144  13.997  34.664  1.00 59.78      MOLB
ATOM   1998  CG  ASN   79      59.874  15.077  33.613  1.00 63.59      MOLB
ATOM   1999  OD1 ASN   79      60.788  15.809  33.217  1.00 59.95      MOLB
ATOM   2000  ND2 ASN   79      58.621  15.172  33.151  1.00 58.35      MOLB
ATOM   2001  C   ASN   79      59.217  12.442  36.400  1.00 54.25      MOLB
ATOM   2002  O   ASN   79      59.677  11.398  35.925  1.00 51.23      MOLB
ATOM   2003  N   GLU   80      58.961  12.565  37.696  1.00 54.15      MOLB
ATOM   2004  CA  GLU   80      59.290  11.470  38.595  1.00 47.12      MOLB
ATOM   2005  CB  GLU   80      60.168  11.994  39.725  1.00 46.58      MOLB
ATOM   2006  CG  GLU   80      61.288  12.941  39.256  1.00 50.50      MOLB
ATOM   2007  CD  GLU   80      62.416  12.238  38.481  1.00 54.91      MOLB
ATOM   2008  OE1 GLU   80      62.289  11.021  38.178  1.00 45.21      MOLB
ATOM   2009  OE2 GLU   80      63.430  12.922  38.180  1.00 57.85      MOLB
ATOM   2010  C   GLU   80      58.041  10.826  39.151  1.00 47.48      MOLB
ATOM   2011  O   GLU   80      56.996  11.471  39.261  1.00 50.20      MOLB
ATOM   2012  N   PRO   81      58.124   9.534  39.500  1.00 45.32      MOLB
ATOM   2013  CD  PRO   81      57.026   8.788  40.140  1.00 44.14      MOLB
ATOM   2014  CA  PRO   81      59.319   8.695  39.385  1.00 49.10      MOLB
ATOM   2015  CB  PRO   81      58.999   7.523  40.300  1.00 51.34      MOLB
ATOM   2016  CG  PRO   81      57.533   7.352  40.100  1.00 41.43      MOLB
ATOM   2017  C   PRO   81      59.462   8.269  37.940  1.00 54.87      MOLB
ATOM   2018  O   PRO   81      58.461   8.224  37.220  1.00 55.23      MOLB
ATOM   2019  N   ASN   82      60.689   7.946  37.525  1.00 59.04      MOLB
ATOM   2020  CA  ASN   82      60.969   7.546  36.142  1.00 57.72      MOLB
ATOM   2021  CB  ASN   82      61.652   8.707  35.405  1.00 54.33      MOLB
ATOM   2022  CG  ASN   82      63.050   9.006  35.945  1.00 53.65      MOLB
ATOM   2023  OD1 ASN   82      63.427   8.547  37.022  1.00 55.70      MOLB
ATOM   2024  ND2 ASN   82      63.816   9.790  35.200  1.00 52.39      MOLB
ATOM   2025  C   ASN   82      61.822   6.283  35.958  1.00 59.47      MOLB
ATOM   2026  O   ASN   82      62.242   5.988  34.837  1.00 63.82      MOLB
ATOM   2027  N   ASN   83      62.107   5.547  37.030  1.00 57.72      MOLB
ATOM   2028  CA  ASN   83      62.914   4.334  36.888  1.00 59.35      MOLB
ATOM   2029  CB  ASN   83      63.892   4.170  38.043  1.00 56.90      MOLB
ATOM   2030  CG  ASN   83      64.793   5.345  38.190  1.00 58.88      MOLB
ATOM   2031  OD1 ASN   83      65.259   5.908  37.201  1.00 59.30      MOLB
ATOM   2032  ND2 ASN   83      65.060   5.729  39.429  1.00 60.75      MOLB
ATOM   2033  C   ASN   83      62.016   3.126  36.853  1.00 59.82      MOLB
ATOM   2034  O   ASN   83      60.879   3.178  37.324  1.00 59.28      MOLB
ATOM   2035  N   LYS   84      62.536   2.026  36.325  1.00 63.14      MOLB
ATOM   2036  CA  LYS   84      61.741   0.818  36.232  1.00 68.99      MOLB
ATOM   2037  CB  LYS   84      61.370   0.557  34.765  1.00 74.44      MOLB
ATOM   2038  CG  LYS   84      60.498   1.644  34.110  1.00 79.49      MOLB
ATOM   2039  CD  LYS   84      59.062   1.635  34.658  1.00 84.60      MOLB
ATOM   2040  CE  LYS   84      58.169   2.691  33.991  1.00 85.53      MOLB
ATOM   2041  NZ  LYS   84      58.534   4.105  34.335  1.00 89.10      MOLB
ATOM   2042  C   LYS   84      62.468  -0.386  36.802  1.00 68.40      MOLB
ATOM   2043  O   LYS   84      61.851  -1.284  37.370  1.00 67.43      MOLB
ATOM   2044  N   ARG   85      63.786  -0.389  36.661  1.00 70.67      MOLB
ATOM   2045  CA  ARG   85      64.613  -1.501  37.120  1.00 70.43      MOLB
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ATOM	2046	CB	ARG	85	65.939	-1.460	36.369	1.00	74.93	MOLB
ATOM	2047	CG	ARG	85	65.731	-1.551	34.867	1.00	80.35	MOLB
ATOM	2048	CD	ARG	85	66.969	-1.158	34.077	1.00	89.12	MOLB
ATOM	2049	NE	ARG	85	67.270	0.274	34.150	1.00	95.83	MOLB
ATOM	2050	CZ	ARG	85	68.080	0.835	35.047	1.00	99.94	MOLB
ATOM	2051	NH1	ARG	85	68.683	0.085	35.963	1.00	102.96	MOLB
ATOM	2052	NH2	ARG	85	68.297	2.147	35.022	1.00	97.42	MOLB
ATOM	2053	C	ARG	85	64.849	-1.604	38.629	1.00	64.56	MOLB
ATOM	2054	O	ARG	85	64.850	-0.603	39.349	1.00	61.69	MOLB
ATOM	2055	N	ASN	86	65.056	-2.843	39.074	1.00	60.14	MOLB
ATOM	2056	CA	ASN	86	65.275	-3.204	40.474	1.00	54.88	MOLB
ATOM	2057	CB	ASN	86	65.693	-4.675	40.561	1.00	55.24	MOLB
ATOM	2058	CG	ASN	86	65.890	-5.160	41.997	1.00	57.96	MOLB
ATOM	2059	OD1	ASN	86	66.985	-5.059	42.559	1.00	63.90	MOLB
ATOM	2060	ND2	ASN	86	64.826	-5.699	42.593	1.00	55.75	MOLB
ATOM	2061	C	ASN	86	66.269	-2.353	41.238	1.00	53.32	MOLB
ATOM	2062	O	ASN	86	67.296	-1.939	40.700	1.00	46.17	MOLB
ATOM	2063	N	ASN	87	65.933	-2.113	42.506	1.00	52.07	MOLB
ATOM	2064	CA	ASN	87	66.739	-1.325	43.443	1.00	49.06	MOLB
ATOM	2065	CB	ASN	87	68.088	-2.019	43.716	1.00	46.10	MOLB
ATOM	2066	CG	ASN	87	68.668	-1.673	45.101	1.00	52.69	MOLB
ATOM	2067	OD1	ASN	87	67.968	-1.713	46.126	1.00	52.90	MOLB
ATOM	2068	ND2	ASN	87	69.950	-1.350	45.132	1.00	49.85	MOLB
ATOM	2069	C	ASN	87	66.957	0.105	42.959	1.00	43.21	MOLB
ATOM	2070	O	ASN	87	67.995	0.705	43.205	1.00	33.90	MOLB
ATOM	2071	N	GLU	88	65.965	0.645	42.258	1.00	49.28	MOLB
ATOM	2072	CA	GLU	88	66.038	2.018	41.767	1.00	48.24	MOLB
ATOM	2073	CB	GLU	88	66.127	2.041	40.241	1.00	50.72	MOLB
ATOM	2074	CG	GLU	88	67.397	1.408	39.683	1.00	56.95	MOLB
ATOM	2075	CD	GLU	88	67.636	1.755	38.216	1.00	62.09	MOLB
ATOM	2076	OE1	GLU	88	66.674	1.667	37.419	1.00	64.41	MOLB
ATOM	2077	OE2	GLU	88	68.785	2.108	37.862	1.00	57.35	MOLB
ATOM	2078	C	GLU	88	64.802	2.786	42.246	1.00	46.83	MOLB
ATOM	2079	O	GLU	88	64.445	3.837	41.690	1.00	44.34	MOLB
ATOM	2080	N	ASP	89	64.168	2.252	43.293	1.00	46.25	MOLB
ATOM	2081	CA	ASP	89	62.969	2.851	43.876	1.00	43.69	MOLB
ATOM	2082	CB	ASP	89	61.868	1.785	44.040	1.00	44.87	MOLB
ATOM	2083	CG	ASP	89	62.241	0.698	45.032	1.00	36.28	MOLB
ATOM	2084	OD1	ASP	89	63.352	0.142	44.901	1.00	42.49	MOLB
ATOM	2085	OD2	ASP	89	61.420	0.398	45.931	1.00	43.01	MOLB
ATOM	2086	C	ASP	89	63.234	3.548	45.219	1.00	43.66	MOLB
ATOM	2087	O	ASP	89	62.346	3.655	46.073	1.00	43.61	MOLB
ATOM	2088	N	CYS	90	64.464	4.004	45.409	1.00	42.28	MOLB
ATOM	2089	CA	CYS	90	64.815	4.721	46.627	1.00	39.68	MOLB
ATOM	2090	C	CYS	90	64.568	6.163	46.273	1.00	37.98	MOLB
ATOM	2091	O	CYS	90	64.829	6.589	45.150	1.00	40.66	MOLB
ATOM	2092	CB	CYS	90	66.285	4.465	47.020	1.00	38.44	MOLB
ATOM	2093	SG	CYS	90	66.469	2.828	47.808	1.00	44.12	MOLB
ATOM	2094	N	VAL	91	64.040	6.923	47.212	1.00	40.10	MOLB
ATOM	2095	CA	VAL	91	63.734	8.301	46.898	1.00	36.69	MOLB
ATOM	2096	CB	VAL	91	62.262	8.540	47.093	1.00	38.66	MOLB
ATOM	2097	CG1	VAL	91	61.916	9.976	46.664	1.00	36.72	MOLB
ATOM	2098	CG2	VAL	91	61.477	7.469	46.297	1.00	32.41	MOLB
ATOM	2099	C	VAL	91	64.525	9.325	47.677	1.00	39.22	MOLB
ATOM	2100	O	VAL	91	64.706	9.201	48.879	1.00	38.33	MOLB
ATOM	2101	N	GLU	92	65.011	10.335	46.968	1.00	41.04	MOLB
ATOM	2102	CA	GLU	92	65.780	11.391	47.586	1.00	42.73	MOLB
ATOM	2103	CB	GLU	92	67.073	11.655	46.794	1.00	40.05	MOLB
ATOM	2104	CG	GLU	92	66.896	12.290	45.414	1.00	45.29	MOLB
ATOM	2105	CD	GLU	92	68.231	12.694	44.747	1.00	46.89	MOLB
ATOM	2106	OE1	GLU	92	69.091	13.316	45.416	1.00	43.94	MOLB
ATOM	2107	OE2	GLU	92	68.416	12.407	43.544	1.00	48.28	MOLB
ATOM	2108	C	GLU	92	64.894	12.630	47.601	1.00	47.30	MOLB
ATOM	2109	O	GLU	92	64.030	12.794	46.729	1.00	46.69	MOLB
ATOM	2110	N	ILE	93	65.056	13.478	48.609	1.00	41.87	MOLB
ATOM	2111	CA	ILE	93	64.263	14.688	48.638	1.00	40.76	MOLB

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ATOM	2112	CB	ILE	93	63.554	14.891	50.005	1.00	42.49	MOLB
ATOM	2113	CG2	ILE	93	64.559	14.977	51.143	1.00	39.56	MOLB
ATOM	2114	CG1	ILE	93	62.702	16.156	49.950	1.00	37.23	MOLB
ATOM	2115	CD1	ILE	93	61.724	16.260	51.089	1.00	32.75	MOLB
ATOM	2116	C	ILE	93	65.240	15.807	48.330	1.00	39.14	MOLB
ATOM	2117	O	ILE	93	66.334	15.844	48.896	1.00	41.77	MOLB
ATOM	2118	N	TYR	94	64.863	16.695	47.414	1.00	36.80	MOLB
ATOM	2119	CA	TYR	94	65.737	17.802	47.007	1.00	41.67	MOLB
ATOM	2120	CB	TYR	94	65.313	18.343	45.644	1.00	42.08	MOLB
ATOM	2121	CG	TYR	94	65.508	17.382	44.498	1.00	39.30	MOLB
ATOM	2122	CD1	TYR	94	66.772	16.871	44.202	1.00	49.25	MOLB
ATOM	2123	CE1	TYR	94	66.967	16.027	43.105	1.00	54.52	MOLB
ATOM	2124	CD2	TYR	94	64.446	17.026	43.682	1.00	38.75	MOLB
ATOM	2125	CE2	TYR	94	64.625	16.196	42.590	1.00	47.05	MOLB
ATOM	2126	CZ	TYR	94	65.882	15.696	42.303	1.00	47.48	MOLB
ATOM	2127	OH	TYR	94	66.055	14.853	41.238	1.00	51.55	MOLB
ATOM	2128	C	TYR	94	65.797	18.970	47.976	1.00	46.45	MOLB
ATOM	2129	O	TYR	94	65.233	20.025	47.696	1.00	47.45	MOLB
ATOM	2130	N	ILE	95	66.499	18.794	49.096	1.00	43.96	MOLB
ATOM	2131	CA	ILE	95	66.613	19.849	50.097	1.00	44.17	MOLB
ATOM	2132	CB	ILE	95	67.223	19.301	51.413	1.00	47.46	MOLB
ATOM	2133	CG2	ILE	95	67.460	20.440	52.395	1.00	44.74	MOLB
ATOM	2134	CG1	ILE	95	66.301	18.226	52.008	1.00	41.40	MOLB
ATOM	2135	CD1	ILE	95	64.929	18.725	52.418	1.00	37.01	MOLB
ATOM	2136	C	ILE	95	67.462	21.015	49.596	1.00	43.32	MOLB
ATOM	2137	O	ILE	95	68.614	20.834	49.194	1.00	39.42	MOLB
ATOM	2138	N	LYS	96	66.866	22.205	49.623	1.00	45.59	MOLB
ATOM	2139	CA	LYS	96	67.513	23.444	49.191	1.00	47.62	MOLB
ATOM	2140	CB	LYS	96	68.607	23.839	50.202	1.00	44.91	MOLB
ATOM	2141	CG	LYS	96	68.001	24.279	51.536	1.00	48.76	MOLB
ATOM	2142	CD	LYS	96	69.020	24.792	52.556	1.00	51.23	MOLB
ATOM	2143	CE	LYS	96	68.340	25.587	53.687	1.00	47.22	MOLB
ATOM	2144	NZ	LYS	96	67.202	24.870	54.361	1.00	53.40	MOLB
ATOM	2145	C	LYS	96	68.053	23.393	47.754	1.00	48.17	MOLB
ATOM	2146	O	LYS	96	69.005	24.101	47.382	1.00	43.84	MOLB
ATOM	2147	N	SER	97	67.426	22.538	46.955	1.00	50.51	MOLB
ATOM	2148	CA	SER	97	67.782	22.391	45.557	1.00	56.38	MOLB
ATOM	2149	CB	SER	97	66.930	21.299	44.910	1.00	58.57	MOLB
ATOM	2150	OG	SER	97	67.090	21.313	43.504	1.00	58.05	MOLB
ATOM	2151	C	SER	97	67.504	23.724	44.870	1.00	57.61	MOLB
ATOM	2152	O	SER	97	66.456	24.346	45.091	1.00	57.64	MOLB
ATOM	2153	N	PRO	98	68.432	24.183	44.025	1.00	59.39	MOLB
ATOM	2154	CD	PRO	98	69.728	23.604	43.626	1.00	58.64	MOLB
ATOM	2155	CA	PRO	98	68.188	25.464	43.355	1.00	60.83	MOLB
ATOM	2156	CB	PRO	98	69.530	25.757	42.678	1.00	58.06	MOLB
ATOM	2157	CG	PRO	98	70.059	24.385	42.367	1.00	61.67	MOLB
ATOM	2158	C	PRO	98	67.001	25.450	42.374	1.00	60.86	MOLB
ATOM	2159	O	PRO	98	66.378	26.487	42.131	1.00	63.75	MOLB
ATOM	2160	N	SER	99	66.664	24.276	41.845	1.00	57.78	MOLB
ATOM	2161	CA	SER	99	65.580	24.175	40.875	1.00	56.31	MOLB
ATOM	2162	CB	SER	99	66.076	23.456	39.622	1.00	50.89	MOLB
ATOM	2163	OG	SER	99	66.422	22.109	39.903	1.00	52.90	MOLB
ATOM	2164	C	SER	99	64.275	23.517	41.330	1.00	61.38	MOLB
ATOM	2165	O	SER	99	63.199	23.918	40.873	1.00	66.55	MOLB
ATOM	2166	N	ALA	100	64.346	22.515	42.208	1.00	56.65	MOLB
ATOM	2167	CA	ALA	100	63.130	21.836	42.662	1.00	55.62	MOLB
ATOM	2168	CB	ALA	100	62.940	20.529	41.879	1.00	55.71	MOLB
ATOM	2169	C	ALA	100	63.133	21.552	44.162	1.00	50.65	MOLB
ATOM	2170	O	ALA	100	63.011	20.402	44.597	1.00	48.00	MOLB
ATOM	2171	N	PRO	101	63.234	22.608	44.972	1.00	50.52	MOLB
ATOM	2172	CD	PRO	101	62.969	24.004	44.584	1.00	53.87	MOLB
ATOM	2173	CA	PRO	101	63.257	22.479	46.427	1.00	46.02	MOLB
ATOM	2174	CB	PRO	101	63.161	23.924	46.894	1.00	49.04	MOLB
ATOM	2175	CG	PRO	101	62.313	24.558	45.821	1.00	49.12	MOLB
ATOM	2176	C	PRO	101	62.151	21.605	46.997	1.00	47.01	MOLB
ATOM	2177	O	PRO	101	60.983	21.729	46.620	1.00	52.28	MOLB

PDB-ENS 3D-2D-SS-SP

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ATOM   2178  N   GLY   102      62.539  20.700  47.888  1.00 40.44      MOLB
ATOM   2179  CA  GLY   102      61.594  19.823  48.548  1.00 36.81      MOLB
ATOM   2180  C   GLY   102      60.982  18.736  47.706  1.00 41.41      MOLB
ATOM   2181  O   GLY   102      60.339  17.840  48.247  1.00 37.61      MOLB
ATOM   2182  N   LYS   103      61.165  18.809  46.389  1.00 45.32      MOLB
ATOM   2183  CA  LYS   103      60.599  17.806  45.491  1.00 47.28      MOLB
ATOM   2184  CB  LYS   103      60.688  18.289  44.038  1.00 54.58      MOLB
ATOM   2185  CG  LYS   103      59.349  18.727  43.447  1.00 53.62      MOLB
ATOM   2186  CD  LYS   103      58.740  19.865  44.242  1.00 62.00      MOLB
ATOM   2187  CE  LYS   103      57.289  20.184  43.815  1.00 64.29      MOLB
ATOM   2188  NZ  LYS   103      57.150  20.717  42.433  1.00 59.34      MOLB
ATOM   2189  C   LYS   103      61.279  16.445  45.635  1.00 47.48      MOLB
ATOM   2190  O   LYS   103      62.399  16.342  46.144  1.00 46.17      MOLB
ATOM   2191  N   TRP   104      60.596  15.401  45.176  1.00 45.59      MOLB
ATOM   2192  CA  TRP   104      61.134  14.049  45.265  1.00 42.46      MOLB
ATOM   2193  CB  TRP   104      60.087  13.091  45.824  1.00 41.19      MOLB
ATOM   2194  CG  TRP   104      59.487  13.472  47.128  1.00 37.73      MOLB
ATOM   2195  CD2 TRP   104      58.316  12.893  47.713  1.00 34.31      MOLB
ATOM   2196  CE2 TRP   104      58.094  13.552  48.950  1.00 38.07      MOLB
ATOM   2197  CE3 TRP   104      57.436  11.881  47.316  1.00 30.14      MOLB
ATOM   2198  CD1 TRP   104      59.929  14.433  48.007  1.00 33.88      MOLB
ATOM   2199  NE1 TRP   104      59.089  14.484  49.106  1.00 39.58      MOLB
ATOM   2200  CZ2 TRP   104      57.021  13.229  49.788  1.00 35.83      MOLB
ATOM   2201  CZ3 TRP   104      56.365  11.553  48.152  1.00 35.41      MOLB
ATOM   2202  CH2 TRP   104      56.169  12.228  49.375  1.00 36.27      MOLB
ATOM   2203  C   TRP   104      61.604  13.477  43.934  1.00 45.14      MOLB
ATOM   2204  O   TRP   104      61.064  13.806  42.878  1.00 45.75      MOLB
ATOM   2205  N   ASN   105      62.592  12.589  44.002  1.00 44.08      MOLB
ATOM   2206  CA  ASN   105      63.133  11.942  42.815  1.00 45.56      MOLB
ATOM   2207  CB  ASN   105      64.308  12.752  42.241  1.00 48.97      MOLB
ATOM   2208  CG  ASN   105      65.141  11.950  41.228  1.00 57.10      MOLB
ATOM   2209  OD1 ASN   105      64.600  11.354  40.288  1.00 54.33      MOLB
ATOM   2210  ND2 ASN   105      66.458  11.933  41.424  1.00 49.73      MOLB
ATOM   2211  C   ASN   105      63.601  10.521  43.129  1.00 45.82      MOLB
ATOM   2212  O   ASN   105      64.315  10.303  44.105  1.00 42.18      MOLB
ATOM   2213  N   ASP   106      63.189   9.547  42.322  1.00 44.94      MOLB
ATOM   2214  CA  ASP   106      63.637   8.194  42.576  1.00 46.74      MOLB
ATOM   2215  CB  ASP   106      62.640   7.140  42.039  1.00 45.93      MOLB
ATOM   2216  CG  ASP   106      62.480   7.140  40.515  1.00 49.03      MOLB
ATOM   2217  OD1 ASP   106      62.832   8.135  39.839  1.00 41.90      MOLB
ATOM   2218  OD2 ASP   106      61.956   6.111  40.006  1.00 48.28      MOLB
ATOM   2219  C   ASP   106      65.038   8.055  41.994  1.00 48.42      MOLB
ATOM   2220  O   ASP   106      65.408   8.736  41.034  1.00 44.92      MOLB
ATOM   2221  N   GLU   107      65.831   7.201  42.621  1.00 47.37      MOLB
ATOM   2222  CA  GLU   107      67.204   7.013  42.218  1.00 45.46      MOLB
ATOM   2223  CB  GLU   107      68.047   8.133  42.825  1.00 46.28      MOLB
ATOM   2224  CG  GLU   107      69.560   7.963  42.736  1.00 54.31      MOLB
ATOM   2225  CD  GLU   107      70.085   8.074  41.324  1.00 57.22      MOLB
ATOM   2226  OE1 GLU   107      70.231   7.030  40.653  1.00 61.58      MOLB
ATOM   2227  OE2 GLU   107      70.347   9.212  40.883  1.00 58.63      MOLB
ATOM   2228  C   GLU   107      67.696   5.660  42.692  1.00 45.00      MOLB
ATOM   2229  O   GLU   107      67.024   4.983  43.473  1.00 42.33      MOLB
ATOM   2230  N   HIS   108      68.873   5.277  42.208  1.00 44.10      MOLB
ATOM   2231  CA  HIS   108      69.491   4.006  42.555  1.00 46.45      MOLB
ATOM   2232  CB  HIS   108      70.742   3.785  41.711  1.00 56.06      MOLB
ATOM   2233  CG  HIS   108      71.341   2.427  41.880  1.00 68.08      MOLB
ATOM   2234  CD2 HIS   108      72.394   2.002  42.618  1.00 69.30      MOLB
ATOM   2235  ND1 HIS   108      70.814   1.303  41.279  1.00 72.32      MOLB
ATOM   2236  CE1 HIS   108      71.517   0.244  41.641  1.00 74.85      MOLB
ATOM   2237  NE2 HIS   108      72.481   0.640  42.454  1.00 74.05      MOLB
ATOM   2238  C   HIS   108      69.862   3.988  44.036  1.00 44.14      MOLB
ATOM   2239  O   HIS   108      70.488   4.919  44.565  1.00 38.82      MOLB
ATOM   2240  N   CYS   109      69.490   2.897  44.683  1.00 41.50      MOLB
ATOM   2241  CA  CYS   109      69.704   2.717  46.100  1.00 38.39      MOLB
ATOM   2242  C   CYS   109      71.132   2.679  46.630  1.00 41.40      MOLB
ATOM   2243  O   CYS   109      71.346   2.852  47.838  1.00 42.20      MOLB
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FAVORED 98.5% ALLOWED 99.8%

ATOM	2244	CB	CYS	109	68.939	1.479	46.546	1.00	35.54	MOLB
ATOM	2245	SG	CYS	109	67.123	1.617	46.313	1.00	39.11	MOLB
ATOM	2246	N	LEU	110	72.112	2.475	45.754	1.00	43.44	MOLB
ATOM	2247	CA	LEU	110	73.495	2.415	46.212	1.00	45.13	MOLB
ATOM	2248	CB	LEU	110	74.300	1.368	45.435	1.00	46.31	MOLB
ATOM	2249	CG	LEU	110	73.946	-0.074	45.854	1.00	59.95	MOLB
ATOM	2250	CD1	LEU	110	74.746	-1.093	45.051	1.00	55.16	MOLB
ATOM	2251	CD2	LEU	110	74.210	-0.245	47.351	1.00	57.11	MOLB
ATOM	2252	C	LEU	110	74.167	3.763	46.156	1.00	45.86	MOLB
ATOM	2253	O	LEU	110	75.308	3.913	46.579	1.00	49.57	MOLB
ATOM	2254	N	LYS	111	73.451	4.747	45.631	1.00	47.43	MOLB
ATOM	2255	CA	LYS	111	73.963	6.106	45.585	1.00	47.30	MOLB
ATOM	2256	CB	LYS	111	72.972	7.004	44.856	1.00	55.97	MOLB
ATOM	2257	CG	LYS	111	73.202	7.135	43.352	1.00	65.74	MOLB
ATOM	2258	CD	LYS	111	74.234	8.223	43.069	1.00	70.51	MOLB
ATOM	2259	CE	LYS	111	74.211	8.652	41.617	1.00	76.46	MOLB
ATOM	2260	NZ	LYS	111	74.440	7.503	40.693	1.00	83.76	MOLB
ATOM	2261	C	LYS	111	74.074	6.534	47.051	1.00	50.53	MOLB
ATOM	2262	O	LYS	111	73.217	6.187	47.876	1.00	42.55	MOLB
ATOM	2263	N	LYS	112	75.131	7.266	47.387	1.00	51.54	MOLB
ATOM	2264	CA	LYS	112	75.308	7.698	48.766	1.00	50.11	MOLB
ATOM	2265	CB	LYS	112	76.801	7.780	49.123	1.00	51.24	MOLB
ATOM	2266	CG	LYS	112	77.564	6.452	49.016	1.00	59.07	MOLB
ATOM	2267	CD	LYS	112	78.961	6.557	49.620	1.00	52.09	MOLB
ATOM	2268	CE	LYS	112	79.669	5.196	49.676	1.00	60.41	MOLB
ATOM	2269	NZ	LYS	112	79.967	4.615	48.325	1.00	61.09	MOLB
ATOM	2270	C	LYS	112	74.652	9.050	49.009	1.00	52.24	MOLB
ATOM	2271	O	LYS	112	75.057	10.056	48.418	1.00	51.04	MOLB
ATOM	2272	N	LYS	113	73.643	9.071	49.878	1.00	46.15	MOLB
ATOM	2273	CA	LYS	113	72.941	10.309	50.208	1.00	43.84	MOLB
ATOM	2274	CB	LYS	113	71.562	10.317	49.515	1.00	43.26	MOLB
ATOM	2275	CG	LYS	113	71.675	10.183	47.985	1.00	35.70	MOLB
ATOM	2276	CD	LYS	113	70.357	10.374	47.264	1.00	38.07	MOLB
ATOM	2277	CE	LYS	113	70.576	10.500	45.755	1.00	43.12	MOLB
ATOM	2278	NZ	LYS	113	71.333	11.742	45.388	1.00	39.68	MOLB
ATOM	2279	C	LYS	113	72.813	10.456	51.733	1.00	44.05	MOLB
ATOM	2280	O	LYS	113	73.127	9.525	52.473	1.00	42.92	MOLB
ATOM	2281	N	HIS	114	72.385	11.624	52.212	1.00	41.35	MOLB
ATOM	2282	CA	HIS	114	72.246	11.817	53.654	1.00	36.68	MOLB
ATOM	2283	CB	HIS	114	72.349	13.286	54.009	1.00	42.94	MOLB
ATOM	2284	CG	HIS	114	73.691	13.864	53.714	1.00	46.83	MOLB
ATOM	2285	CD2	HIS	114	74.670	14.309	54.534	1.00	50.61	MOLB
ATOM	2286	ND1	HIS	114	74.191	13.955	52.435	1.00	50.13	MOLB
ATOM	2287	CE1	HIS	114	75.423	14.428	52.478	1.00	53.86	MOLB
ATOM	2288	NE2	HIS	114	75.738	14.650	53.741	1.00	49.96	MOLB
ATOM	2289	C	HIS	114	70.962	11.253	54.234	1.00	39.69	MOLB
ATOM	2290	O	HIS	114	69.875	11.440	53.691	1.00	37.35	MOLB
ATOM	2291	N	ALA	115	71.113	10.540	55.344	1.00	39.72	MOLB
ATOM	2292	CA	ALA	115	69.993	9.939	56.043	1.00	34.37	MOLB
ATOM	2293	CB	ALA	115	70.504	8.986	57.120	1.00	33.18	MOLB
ATOM	2294	C	ALA	115	69.187	11.055	56.687	1.00	36.51	MOLB
ATOM	2295	O	ALA	115	69.748	11.930	57.360	1.00	39.88	MOLB
ATOM	2296	N	LEU	116	67.879	11.031	56.451	1.00	35.33	MOLB
ATOM	2297	CA	LEU	116	66.943	11.989	57.013	1.00	30.06	MOLB
ATOM	2298	CB	LEU	116	66.112	12.640	55.902	1.00	34.52	MOLB
ATOM	2299	CG	LEU	116	65.089	13.663	56.367	1.00	35.43	MOLB
ATOM	2300	CD1	LEU	116	65.706	14.566	57.421	1.00	35.47	MOLB
ATOM	2301	CD2	LEU	116	64.629	14.473	55.186	1.00	29.62	MOLB
ATOM	2302	C	LEU	116	66.090	11.071	57.879	1.00	37.33	MOLB
ATOM	2303	O	LEU	116	65.355	10.207	57.377	1.00	33.10	MOLB
ATOM	2304	N	CYS	117	66.211	11.247	59.187	1.00	34.79	MOLB
ATOM	2305	CA	CYS	117	65.512	10.392	60.130	1.00	37.30	MOLB
ATOM	2306	C	CYS	117	64.465	11.075	60.985	1.00	40.59	MOLB
ATOM	2307	O	CYS	117	64.414	12.306	61.071	1.00	49.57	MOLB
ATOM	2308	CB	CYS	117	66.514	9.781	61.098	1.00	36.62	MOLB
ATOM	2309	SG	CYS	117	68.088	9.196	60.418	1.00	40.27	MOLB

PDB ID 1SG7 pdb1sg7.ent

ATOM	2310	N	TYR	118	63.660	10.248	61.654	1.00	41.98	MOLB
ATOM	2311	CA	TYR	118	62.654	10.723	62.591	1.00	40.05	MOLB
ATOM	2312	CB	TYR	118	61.257	10.754	61.958	1.00	32.06	MOLB
ATOM	2313	CG	TYR	118	60.532	9.421	61.919	1.00	33.03	MOLB
ATOM	2314	CD1	TYR	118	60.715	8.531	60.859	1.00	29.02	MOLB
ATOM	2315	CE1	TYR	118	60.008	7.351	60.789	1.00	22.80	MOLB
ATOM	2316	CD2	TYR	118	59.626	9.077	62.920	1.00	32.22	MOLB
ATOM	2317	CE2	TYR	118	58.920	7.896	62.870	1.00	34.13	MOLB
ATOM	2318	CZ	TYR	118	59.103	7.027	61.800	1.00	40.41	MOLB
ATOM	2319	OH	TYR	118	58.360	5.849	61.740	1.00	41.67	MOLB
ATOM	2320	C	TYR	118	62.628	9.824	63.832	1.00	39.94	MOLB
ATOM	2321	O	TYR	118	62.978	8.646	63.773	1.00	39.35	MOLB
ATOM	2322	N	THR	119	62.242	10.406	64.962	1.00	44.30	MOLB
ATOM	2323	CA	THR	119	62.096	9.660	66.218	1.00	38.63	MOLB
ATOM	2324	CB	THR	119	62.920	10.265	67.409	1.00	35.06	MOLB
ATOM	2325	OG1	THR	119	64.317	10.214	67.114	1.00	32.74	MOLB
ATOM	2326	CG2	THR	119	62.676	9.471	68.683	1.00	33.37	MOLB
ATOM	2327	C	THR	119	60.621	9.858	66.499	1.00	34.20	MOLB
ATOM	2328	O	THR	119	60.176	10.987	66.684	1.00	39.88	MOLB
ATOM	2329	N	ALA	120	59.850	8.782	66.484	1.00	36.56	MOLB
ATOM	2330	CA	ALA	120	58.419	8.904	66.740	1.00	37.58	MOLB
ATOM	2331	CB	ALA	120	57.760	7.534	66.713	1.00	32.35	MOLB
ATOM	2332	C	ALA	120	58.210	9.550	68.103	1.00	44.13	MOLB
ATOM	2333	O	ALA	120	58.931	9.234	69.054	1.00	46.92	MOLB
ATOM	2334	N	SER	121	57.240	10.464	68.181	1.00	46.13	MOLB
ATOM	2335	CA	SER	121	56.903	11.156	69.429	1.00	47.26	MOLB
ATOM	2336	CB	SER	121	56.273	12.522	69.137	1.00	41.81	MOLB
ATOM	2337	OG	SER	121	57.216	13.440	68.611	1.00	46.65	MOLB
ATOM	2338	C	SER	121	55.893	10.304	70.193	1.00	52.23	MOLB
ATOM	2339	O	SER	121	55.887	10.243	71.432	1.00	52.61	MOLB
ATOM	2340	N	CYS	122	55.034	9.645	69.428	1.00	54.34	MOLB
ATOM	2341	CA	CYS	122	53.997	8.800	69.985	1.00	56.62	MOLB
ATOM	2342	C	CYS	122	54.562	7.569	70.673	1.00	64.57	MOLB
ATOM	2343	O	CYS	122	55.133	6.688	70.032	1.00	66.85	MOLB
ATOM	2344	CB	CYS	122	53.028	8.381	68.881	1.00	52.02	MOLB
ATOM	2345	SG	CYS	122	52.008	9.754	68.249	1.00	47.87	MOLB
ATOM	2346	N	GLN	123	54.406	7.520	71.990	1.00	72.91	MOLB
ATOM	2347	CA	GLN	123	54.876	6.390	72.772	1.00	76.56	MOLB
ATOM	2348	CB	GLN	123	55.331	6.855	74.153	1.00	82.68	MOLB
ATOM	2349	CG	GLN	123	56.552	7.759	74.100	1.00	91.14	MOLB
ATOM	2350	CD	GLN	123	57.640	7.191	73.197	1.00	96.71	MOLB
ATOM	2351	OE1	GLN	123	58.123	6.070	73.405	1.00	97.18	MOLB
ATOM	2352	NE2	GLN	123	58.024	7.961	72.182	1.00	97.97	MOLB
ATOM	2353	C	GLN	123	53.746	5.388	72.911	1.00	79.82	MOLB
ATOM	2354	O	GLN	123	52.726	5.481	72.221	1.00	82.52	MOLB
ATOM	2355	N	ASP	124	53.918	4.434	73.812	1.00	79.39	MOLB
ATOM	2356	CA	ASP	124	52.901	3.423	74.014	1.00	75.84	MOLB
ATOM	2357	CB	ASP	124	53.547	2.153	74.553	1.00	79.75	MOLB
ATOM	2358	CG	ASP	124	52.572	1.016	74.653	1.00	83.63	MOLB
ATOM	2359	OD1	ASP	124	51.980	0.828	75.742	1.00	84.09	MOLB
ATOM	2360	OD2	ASP	124	52.393	0.324	73.626	1.00	85.17	MOLB
ATOM	2361	C	ASP	124	51.813	3.912	74.964	1.00	72.26	MOLB
ATOM	2362	O	ASP	124	50.625	3.671	74.746	1.00	67.31	MOLB
ATOM	2363	N	MET	125	52.216	4.609	76.016	1.00	64.60	MOLB
ATOM	2364	CA	MET	125	51.239	5.107	76.954	1.00	65.82	MOLB
ATOM	2365	CB	MET	125	51.813	5.077	78.371	1.00	72.76	MOLB
ATOM	2366	CG	MET	125	51.948	3.664	78.933	1.00	83.73	MOLB
ATOM	2367	SD	MET	125	52.017	3.569	80.753	1.00	97.43	MOLB
ATOM	2368	CE	MET	125	50.289	3.116	81.196	1.00	90.69	MOLB
ATOM	2369	C	MET	125	50.740	6.509	76.618	1.00	63.31	MOLB
ATOM	2370	O	MET	125	50.099	7.147	77.444	1.00	62.24	MOLB
ATOM	2371	N	SER	126	51.005	6.985	75.406	1.00	61.32	MOLB
ATOM	2372	CA	SER	126	50.574	8.331	75.036	1.00	59.70	MOLB
ATOM	2373	CB	SER	126	51.299	8.797	73.766	1.00	61.29	MOLB
ATOM	2374	OG	SER	126	51.160	7.864	72.721	1.00	66.82	MOLB
ATOM	2375	C	SER	126	49.056	8.517	74.892	1.00	55.02	MOLB

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ATOM	2376	O	SER	126	48.299	7.568	74.636	1.00	54.82	MOLB
ATOM	2377	N	CYS	127	48.621	9.755	75.083	1.00	44.42	MOLB
ATOM	2378	CA	CYS	127	47.205	10.094	75.015	1.00	39.26	MOLB
ATOM	2379	C	CYS	127	46.405	9.297	76.036	1.00	39.37	MOLB
ATOM	2380	O	CYS	127	45.206	9.033	75.850	1.00	38.60	MOLB
ATOM	2381	CB	CYS	127	46.657	9.854	73.609	1.00	39.95	MOLB
ATOM	2382	SG	CYS	127	47.473	10.882	72.342	1.00	44.64	MOLB
ATOM	2383	N	SER	128	47.083	8.918	77.122	1.00	40.15	MOLB
ATOM	2384	CA	SER	128	46.463	8.157	78.207	1.00	38.82	MOLB
ATOM	2385	CB	SER	128	45.398	9.020	78.881	1.00	40.52	MOLB
ATOM	2386	OG	SER	128	45.961	10.224	79.357	1.00	38.28	MOLB
ATOM	2387	C	SER	128	45.829	6.836	77.755	1.00	40.85	MOLB
ATOM	2388	O	SER	128	44.995	6.258	78.463	1.00	40.55	MOLB
ATOM	2389	N	LYS	129	46.231	6.350	76.584	1.00	43.22	MOLB
ATOM	2390	CA	LYS	129	45.651	5.130	76.052	1.00	47.34	MOLB
ATOM	2391	CB	LYS	129	45.932	3.962	76.988	1.00	48.80	MOLB
ATOM	2392	CG	LYS	129	47.384	3.578	76.931	1.00	60.03	MOLB
ATOM	2393	CD	LYS	129	47.845	2.719	78.086	1.00	63.47	MOLB
ATOM	2394	CE	LYS	129	49.290	2.309	77.815	1.00	70.89	MOLB
ATOM	2395	NZ	LYS	129	49.924	1.536	78.911	1.00	77.85	MOLB
ATOM	2396	C	LYS	129	44.149	5.329	75.867	1.00	49.09	MOLB
ATOM	2397	O	LYS	129	43.420	4.373	75.619	1.00	51.02	MOLB
ATOM	2398	N	GLN	130	43.690	6.577	75.976	1.00	47.54	MOLB
ATOM	2399	CA	GLN	130	42.269	6.870	75.796	1.00	46.24	MOLB
ATOM	2400	CB	GLN	130	41.707	7.501	77.069	1.00	44.98	MOLB
ATOM	2401	CG	GLN	130	41.938	6.574	78.252	1.00	44.16	MOLB
ATOM	2402	CD	GLN	130	41.507	7.145	79.572	1.00	47.69	MOLB
ATOM	2403	OE1	GLN	130	41.635	8.346	79.818	1.00	54.11	MOLB
ATOM	2404	NE2	GLN	130	41.014	6.281	80.450	1.00	49.48	MOLB
ATOM	2405	C	GLN	130	42.035	7.743	74.564	1.00	45.74	MOLB
ATOM	2406	O	GLN	130	41.016	8.439	74.444	1.00	38.78	MOLB
ATOM	2407	N	GLY	131	42.994	7.664	73.636	1.00	40.26	MOLB
ATOM	2408	CA	GLY	131	42.905	8.410	72.397	1.00	40.55	MOLB
ATOM	2409	C	GLY	131	43.916	7.940	71.365	1.00	42.77	MOLB
ATOM	2410	O	GLY	131	44.784	7.118	71.651	1.00	34.68	MOLB
ATOM	2411	N	GLU	132	43.808	8.476	70.158	1.00	41.39	MOLB
ATOM	2412	CA	GLU	132	44.714	8.110	69.087	1.00	43.58	MOLB
ATOM	2413	CB	GLU	132	43.951	8.002	67.769	1.00	46.97	MOLB
ATOM	2414	CG	GLU	132	44.786	7.525	66.600	1.00	57.56	MOLB
ATOM	2415	CD	GLU	132	44.041	7.633	65.282	1.00	64.26	MOLB
ATOM	2416	OE1	GLU	132	44.714	7.805	64.242	1.00	62.55	MOLB
ATOM	2417	OE2	GLU	132	42.788	7.548	65.286	1.00	65.07	MOLB
ATOM	2418	C	GLU	132	45.789	9.165	68.978	1.00	41.68	MOLB
ATOM	2419	O	GLU	132	45.490	10.357	68.916	1.00	45.00	MOLB
ATOM	2420	N	CYS	133	47.042	8.726	68.971	1.00	39.01	MOLB
ATOM	2421	CA	CYS	133	48.171	9.633	68.875	1.00	41.66	MOLB
ATOM	2422	C	CYS	133	48.521	9.956	67.411	1.00	44.12	MOLB
ATOM	2423	O	CYS	133	48.614	9.059	66.576	1.00	52.47	MOLB
ATOM	2424	CB	CYS	133	49.368	9.001	69.573	1.00	39.32	MOLB
ATOM	2425	SG	CYS	133	50.785	10.111	69.831	1.00	41.21	MOLB
ATOM	2426	N	LEU	134	48.721	11.233	67.107	1.00	38.50	MOLB
ATOM	2427	CA	LEU	134	49.063	11.659	65.756	1.00	39.04	MOLB
ATOM	2428	CB	LEU	134	47.950	12.525	65.173	1.00	38.43	MOLB
ATOM	2429	CG	LEU	134	46.565	11.882	65.055	1.00	48.30	MOLB
ATOM	2430	CD1	LEU	134	45.667	12.841	64.289	1.00	44.24	MOLB
ATOM	2431	CD2	LEU	134	46.630	10.531	64.326	1.00	42.30	MOLB
ATOM	2432	C	LEU	134	50.359	12.471	65.751	1.00	40.84	MOLB
ATOM	2433	O	LEU	134	50.436	13.512	66.406	1.00	37.67	MOLB
ATOM	2434	N	GLU	135	51.357	12.012	64.994	1.00	29.93	MOLB
ATOM	2435	CA	GLU	135	52.635	12.703	64.920	1.00	35.36	MOLB
ATOM	2436	CB	GLU	135	53.648	11.855	64.134	1.00	36.19	MOLB
ATOM	2437	CG	GLU	135	53.829	10.425	64.628	1.00	33.28	MOLB
ATOM	2438	CD	GLU	135	54.794	10.283	65.823	1.00	42.36	MOLB
ATOM	2439	OE1	GLU	135	55.536	11.247	66.135	1.00	32.99	MOLB
ATOM	2440	OE2	GLU	135	54.809	9.183	66.432	1.00	32.71	MOLB
ATOM	2441	C	GLU	135	52.497	14.073	64.247	1.00	35.82	MOLB

ATOM	2442	O	GLU	135	51.758	14.226	63.273	1.00	32.35	MOLB
ATOM	2443	N	THR	136	53.198	15.069	64.781	1.00	37.74	MOLB
ATOM	2444	CA	THR	136	53.192	16.420	64.208	1.00	39.78	MOLB
ATOM	2445	CB	THR	136	52.447	17.440	65.060	1.00	39.57	MOLB
ATOM	2446	OG1	THR	136	53.148	17.584	66.292	1.00	42.32	MOLB
ATOM	2447	CG2	THR	136	51.005	17.024	65.313	1.00	29.04	MOLB
ATOM	2448	C	THR	136	54.642	16.876	64.208	1.00	45.20	MOLB
ATOM	2449	O	THR	136	55.517	16.213	64.782	1.00	45.32	MOLB
ATOM	2450	N	ILE	137	54.902	18.020	63.590	1.00	46.06	MOLB
ATOM	2451	CA	ILE	137	56.263	18.512	63.531	1.00	44.50	MOLB
ATOM	2452	CB	ILE	137	56.335	19.811	62.680	1.00	39.05	MOLB
ATOM	2453	CG2	ILE	137	57.776	20.300	62.551	1.00	36.96	MOLB
ATOM	2454	CG1	ILE	137	55.774	19.526	61.285	1.00	46.01	MOLB
ATOM	2455	CD1	ILE	137	55.910	20.680	60.312	1.00	34.61	MOLB
ATOM	2456	C	ILE	137	56.829	18.745	64.934	1.00	45.47	MOLB
ATOM	2457	O	ILE	137	56.410	19.652	65.635	1.00	49.11	MOLB
ATOM	2458	N	GLY	138	57.773	17.893	65.331	1.00	47.65	MOLB
ATOM	2459	CA	GLY	138	58.429	18.013	66.627	1.00	40.79	MOLB
ATOM	2460	C	GLY	138	57.615	17.628	67.854	1.00	41.88	MOLB
ATOM	2461	O	GLY	138	58.077	17.838	68.973	1.00	44.44	MOLB
ATOM	2462	N	ASN	139	56.434	17.041	67.670	1.00	39.60	MOLB
ATOM	2463	CA	ASN	139	55.586	16.702	68.806	1.00	39.99	MOLB
ATOM	2464	CB	ASN	139	54.974	17.999	69.342	1.00	36.24	MOLB
ATOM	2465	CG	ASN	139	54.502	17.888	70.786	1.00	40.98	MOLB
ATOM	2466	OD1	ASN	139	54.648	16.845	71.432	1.00	48.91	MOLB
ATOM	2467	ND2	ASN	139	53.942	18.980	71.306	1.00	35.95	MOLB
ATOM	2468	C	ASN	139	54.482	15.739	68.371	1.00	36.56	MOLB
ATOM	2469	O	ASN	139	54.677	14.972	67.440	1.00	34.05	MOLB
ATOM	2470	N	TYR	140	53.339	15.778	69.064	1.00	34.65	MOLB
ATOM	2471	CA	TYR	140	52.177	14.956	68.725	1.00	33.23	MOLB
ATOM	2472	CB	TYR	140	52.326	13.516	69.244	1.00	35.71	MOLB
ATOM	2473	CG	TYR	140	52.310	13.401	70.746	1.00	46.81	MOLB
ATOM	2474	CD1	TYR	140	53.478	13.553	71.488	1.00	50.24	MOLB
ATOM	2475	CE1	TYR	140	53.453	13.540	72.882	1.00	49.87	MOLB
ATOM	2476	CD2	TYR	140	51.109	13.225	71.439	1.00	53.28	MOLB
ATOM	2477	CE2	TYR	140	51.073	13.212	72.836	1.00	48.19	MOLB
ATOM	2478	CZ	TYR	140	52.249	13.371	73.548	1.00	53.08	MOLB
ATOM	2479	OH	TYR	140	52.225	13.372	74.925	1.00	63.91	MOLB
ATOM	2480	C	TYR	140	50.912	15.566	69.327	1.00	34.61	MOLB
ATOM	2481	O	TYR	140	50.994	16.437	70.182	1.00	39.01	MOLB
ATOM	2482	N	THR	141	49.749	15.108	68.869	1.00	36.98	MOLB
ATOM	2483	CA	THR	141	48.456	15.570	69.381	1.00	42.73	MOLB
ATOM	2484	CB	THR	141	47.691	16.463	68.360	1.00	44.76	MOLB
ATOM	2485	OG1	THR	141	47.310	15.674	67.227	1.00	45.31	MOLB
ATOM	2486	CG2	THR	141	48.569	17.624	67.889	1.00	36.61	MOLB
ATOM	2487	C	THR	141	47.620	14.320	69.656	1.00	45.81	MOLB
ATOM	2488	O	THR	141	48.021	13.213	69.287	1.00	48.10	MOLB
ATOM	2489	N	CYS	142	46.462	14.493	70.285	1.00	39.06	MOLB
ATOM	2490	CA	CYS	142	45.598	13.370	70.614	1.00	35.17	MOLB
ATOM	2491	C	CYS	142	44.159	13.526	70.115	1.00	40.13	MOLB
ATOM	2492	O	CYS	142	43.570	14.612	70.214	1.00	44.64	MOLB
ATOM	2493	CB	CYS	142	45.553	13.173	72.140	1.00	34.39	MOLB
ATOM	2494	SG	CYS	142	47.136	12.789	72.972	1.00	37.68	MOLB
ATOM	2495	N	SER	143	43.596	12.446	69.579	1.00	36.82	MOLB
ATOM	2496	CA	SER	143	42.206	12.446	69.141	1.00	36.74	MOLB
ATOM	2497	CB	SER	143	42.077	11.876	67.738	1.00	39.09	MOLB
ATOM	2498	OG	SER	143	42.703	12.734	66.809	1.00	53.15	MOLB
ATOM	2499	C	SER	143	41.543	11.507	70.134	1.00	42.48	MOLB
ATOM	2500	O	SER	143	41.660	10.285	70.017	1.00	49.67	MOLB
ATOM	2501	N	CYS	144	40.852	12.061	71.116	1.00	36.72	MOLB
ATOM	2502	CA	CYS	144	40.229	11.232	72.140	1.00	42.82	MOLB
ATOM	2503	C	CYS	144	39.115	10.308	71.667	1.00	39.86	MOLB
ATOM	2504	O	CYS	144	38.385	10.622	70.732	1.00	37.39	MOLB
ATOM	2505	CB	CYS	144	39.725	12.127	73.287	1.00	36.62	MOLB
ATOM	2506	SG	CYS	144	41.077	13.170	73.917	1.00	42.40	MOLB
ATOM	2507	N	TYR	145	39.015	9.147	72.307	1.00	42.95	MOLB

ATOM 2508 CA TYR 145 37.952 8.204 71.972 1.00 45.59 MOLB
ATOM 2509 CB TYR 145 38.270 6.777 72.450 1.00 41.40 MOLB
ATOM 2510 CG TYR 145 39.529 6.197 71.844 1.00 38.16 MOLB
ATOM 2511 CD1 TYR 145 39.787 6.324 70.483 1.00 36.27 MOLB
ATOM 2512 CE1 TYR 145 40.959 5.810 69.920 1.00 41.51 MOLB
ATOM 2513 CD2 TYR 145 40.469 5.540 72.634 1.00 35.22 MOLB
ATOM 2514 CE2 TYR 145 41.643 5.029 72.087 1.00 40.43 MOLB
ATOM 2515 CZ TYR 145 41.882 5.165 70.728 1.00 47.21 MOLB
ATOM 2516 OH TYR 145 43.035 4.648 70.169 1.00 54.84 MOLB
ATOM 2517 C TYR 145 36.721 8.715 72.689 1.00 46.69 MOLB
ATOM 2518 O TYR 145 36.822 9.423 73.688 1.00 52.55 MOLB
ATOM 2519 N PRO 146 35.541 8.385 72.176 1.00 48.01 MOLB
ATOM 2520 CD PRO 146 35.254 7.530 71.009 1.00 50.05 MOLB
ATOM 2521 CA PRO 146 34.312 8.848 72.818 1.00 44.42 MOLB
ATOM 2522 CB PRO 146 33.236 8.027 72.110 1.00 51.66 MOLB
ATOM 2523 CG PRO 146 33.815 7.859 70.710 1.00 50.39 MOLB
ATOM 2524 C PRO 146 34.360 8.588 74.323 1.00 45.31 MOLB
ATOM 2525 O PRO 146 34.695 7.483 74.753 1.00 43.34 MOLB
ATOM 2526 N GLY 147 34.047 9.616 75.114 1.00 39.75 MOLB
ATOM 2527 CA GLY 147 34.045 9.475 76.564 1.00 30.91 MOLB
ATOM 2528 C GLY 147 35.300 10.001 77.220 1.00 30.03 MOLB
ATOM 2529 O GLY 147 35.451 9.954 78.439 1.00 39.96 MOLB
ATOM 2530 N PHE 148 36.218 10.507 76.413 1.00 29.55 MOLB
ATOM 2531 CA PHE 148 37.460 11.061 76.942 1.00 31.63 MOLB
ATOM 2532 CB PHE 148 38.631 10.131 76.619 1.00 32.01 MOLB
ATOM 2533 CG PHE 148 38.460 8.763 77.181 1.00 30.67 MOLB
ATOM 2534 CD1 PHE 148 37.963 7.733 76.390 1.00 34.84 MOLB
ATOM 2535 CD2 PHE 148 38.671 8.530 78.533 1.00 32.95 MOLB
ATOM 2536 CE1 PHE 148 37.668 6.477 76.952 1.00 41.79 MOLB
ATOM 2537 CE2 PHE 148 38.377 7.281 79.108 1.00 32.97 MOLB
ATOM 2538 CZ PHE 148 37.876 6.257 78.323 1.00 33.32 MOLB
ATOM 2539 C PHE 148 37.737 12.446 76.372 1.00 35.45 MOLB
ATOM 2540 O PHE 148 37.250 12.800 75.280 1.00 34.89 MOLB
ATOM 2541 N TYR 149 38.499 13.249 77.113 1.00 34.48 MOLB
ATOM 2542 CA TYR 149 38.845 14.576 76.618 1.00 29.73 MOLB
ATOM 2543 CB TYR 149 37.662 15.559 76.769 1.00 24.86 MOLB
ATOM 2544 CG TYR 149 37.238 15.846 78.189 1.00 28.19 MOLB
ATOM 2545 CD1 TYR 149 36.292 15.043 78.843 1.00 29.16 MOLB
ATOM 2546 CE1 TYR 149 35.855 15.359 80.130 1.00 29.32 MOLB
ATOM 2547 CD2 TYR 149 37.735 16.961 78.868 1.00 32.13 MOLB
ATOM 2548 CE2 TYR 149 37.300 17.288 80.150 1.00 25.19 MOLB
ATOM 2549 CZ TYR 149 36.369 16.497 80.768 1.00 30.67 MOLB
ATOM 2550 OH TYR 149 35.927 16.865 82.006 1.00 30.12 MOLB
ATOM 2551 C TYR 149 40.070 15.121 77.308 1.00 28.59 MOLB
ATOM 2552 O TYR 149 40.535 14.564 78.304 1.00 34.11 MOLB
ATOM 2553 N GLY 150 40.587 16.224 76.771 1.00 30.10 MOLB
ATOM 2554 CA GLY 150 41.770 16.838 77.334 1.00 29.30 MOLB
ATOM 2555 C GLY 150 42.885 16.680 76.337 1.00 34.71 MOLB
ATOM 2556 O GLY 150 42.773 15.861 75.422 1.00 32.92 MOLB
ATOM 2557 N PRO 151 43.970 17.454 76.465 1.00 39.70 MOLB
ATOM 2558 CD PRO 151 44.152 18.664 77.283 1.00 39.52 MOLB
ATOM 2559 CA PRO 151 45.059 17.305 75.490 1.00 41.02 MOLB
ATOM 2560 CB PRO 151 46.026 18.451 75.863 1.00 37.64 MOLB
ATOM 2561 CG PRO 151 45.641 18.843 77.249 1.00 38.26 MOLB
ATOM 2562 C PRO 151 45.712 15.905 75.450 1.00 40.24 MOLB
ATOM 2563 O PRO 151 46.243 15.484 74.419 1.00 36.09 MOLB
ATOM 2564 N GLU 152 45.649 15.188 76.566 1.00 35.17 MOLB
ATOM 2565 CA GLU 152 46.196 13.839 76.654 1.00 37.54 MOLB
ATOM 2566 CB GLU 152 47.147 13.713 77.849 1.00 40.39 MOLB
ATOM 2567 CG GLU 152 48.431 14.491 77.714 1.00 41.88 MOLB
ATOM 2568 CD GLU 152 49.340 13.923 76.651 1.00 43.15 MOLB
ATOM 2569 OE1 GLU 152 49.286 12.696 76.427 1.00 36.83 MOLB
ATOM 2570 OE2 GLU 152 50.118 14.701 76.061 1.00 38.59 MOLB
ATOM 2571 C GLU 152 45.061 12.845 76.848 1.00 37.12 MOLB
ATOM 2572 O GLU 152 45.297 11.697 77.235 1.00 29.67 MOLB
ATOM 2573 N CYS 153 43.835 13.304 76.600 1.00 37.14 MOLB

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ATOM   2574  CA  CYS   153      42.649  12.474  76.788  1.00 36.71      MOLB
ATOM   2575  C   CYS   153      42.657  11.960  78.217  1.00 32.96      MOLB
ATOM   2576  O   CYS   153      42.169  10.873  78.503  1.00 35.82      MOLB
ATOM   2577  CB  CYS   153      42.643  11.306  75.803  1.00 34.54      MOLB
ATOM   2578  SG  CYS   153      42.654  11.885  74.076  1.00 41.82      MOLB
ATOM   2579  N   GLU   154      43.201  12.779  79.109  1.00 33.66      MOLB
ATOM   2580  CA  GLU   154      43.321  12.435  80.514  1.00 30.16      MOLB
ATOM   2581  CB  GLU   154      44.440  13.254  81.162  1.00 31.62      MOLB
ATOM   2582  CG  GLU   154      44.176  14.776  81.233  1.00 30.36      MOLB
ATOM   2583  CD  GLU   154      44.775  15.547  80.048  1.00 34.06      MOLB
ATOM   2584  OE1 GLU   154      44.276  15.385  78.905  1.00 39.03      MOLB
ATOM   2585  OE2 GLU   154      45.751  16.310  80.259  1.00 31.11      MOLB
ATOM   2586  C   GLU   154      42.045  12.612  81.338  1.00 35.36      MOLB
ATOM   2587  O   GLU   154      42.023  12.244  82.523  1.00 32.37      MOLB
ATOM   2588  N   TYR   155      41.003  13.192  80.751  1.00 31.68      MOLB
ATOM   2589  CA  TYR   155      39.754  13.377  81.497  1.00 30.11      MOLB
ATOM   2590  CB  TYR   155      39.246  14.821  81.376  1.00 33.45      MOLB
ATOM   2591  CG  TYR   155      40.199  15.868  81.927  1.00 25.73      MOLB
ATOM   2592  CD1 TYR   155      40.466  15.962  83.299  1.00 29.31      MOLB
ATOM   2593  CE1 TYR   155      41.355  16.937  83.805  1.00 27.41      MOLB
ATOM   2594  CD2 TYR   155      40.834  16.761  81.071  1.00 26.94      MOLB
ATOM   2595  CE2 TYR   155      41.714  17.735  81.552  1.00 32.62      MOLB
ATOM   2596  CZ  TYR   155      41.973  17.822  82.912  1.00 31.31      MOLB
ATOM   2597  OH  TYR   155      42.841  18.793  83.350  1.00 28.61      MOLB
ATOM   2598  C   TYR   155      38.674  12.391  81.039  1.00 29.56      MOLB
ATOM   2599  O   TYR   155      38.580  12.036  79.850  1.00 28.82      MOLB
ATOM   2600  N   VAL   156      37.852  11.976  81.996  1.00 28.44      MOLB
ATOM   2601  CA  VAL   156      36.812  10.990  81.784  1.00 30.74      MOLB
ATOM   2602  CB  VAL   156      37.039   9.823  82.793  1.00 34.12      MOLB
ATOM   2603  CG1 VAL   156      36.158   8.613  82.469  1.00 25.25      MOLB
ATOM   2604  CG2 VAL   156      38.528   9.461  82.778  1.00 22.16      MOLB
ATOM   2605  C   VAL   156      35.421  11.559  81.965  1.00 32.58      MOLB
ATOM   2606  O   VAL   156      35.111  12.115  83.006  1.00 31.60      MOLB
ATOM   2607  N   ARG   157      34.575  11.420  80.955  1.00 30.46      MOLB
ATOM   2608  CA  ARG   157      33.216  11.938  81.059  1.00 33.69      MOLB
ATOM   2609  CB  ARG   157      32.516  11.919  79.691  1.00 31.70      MOLB
ATOM   2610  CG  ARG   157      33.131  12.829  78.646  1.00 40.46      MOLB
ATOM   2611  CD  ARG   157      32.740  14.253  78.916  1.00 34.22      MOLB
ATOM   2612  NE  ARG   157      31.304  14.397  78.781  1.00 40.02      MOLB
ATOM   2613  CZ  ARG   157      30.701  14.754  77.656  1.00 44.42      MOLB
ATOM   2614  NH1 ARG   157      31.420  15.023  76.571  1.00 47.02      MOLB
ATOM   2615  NH2 ARG   157      29.378  14.809  77.605  1.00 36.67      MOLB
ATOM   2616  C   ARG   157      32.392  11.099  82.029  1.00 42.07      MOLB
ATOM   2617  O   ARG   157      32.528   9.873  82.079  1.00 43.87      MOLB
ATOM   2618  N   ASP   158      31.546  11.773  82.799  1.00 42.80      MOLB
ATOM   2619  CA  ASP   158      30.649  11.106  83.721  1.00 51.06      MOLB
ATOM   2620  CB  ASP   158      30.283  12.039  84.877  1.00 48.21      MOLB
ATOM   2621  CG  ASP   158      31.386  12.148  85.910  1.00 55.24      MOLB
ATOM   2622  OD1 ASP   158      31.803  11.099  86.452  1.00 57.23      MOLB
ATOM   2623  OD2 ASP   158      31.834  13.281  86.191  1.00 57.14      MOLB
ATOM   2624  C   ASP   158      29.392  10.763  82.915  1.00 55.93      MOLB
ATOM   2625  O   ASP   158      28.744  11.656  82.367  1.00 53.00      MOLB
ATOM   2626  N   ALA   159      29.062   9.475  82.829  1.00 65.81      MOLB
ATOM   2627  CA  ALA   159      27.872   9.015  82.090  1.00 78.25      MOLB
ATOM   2628  CB  ALA   159      28.227   7.819  81.183  1.00 77.59      MOLB
ATOM   2629  C   ALA   159      26.743   8.625  83.051  1.00 83.04      MOLB
ATOM   2630  O   ALA   159      25.578   8.948  82.820  1.00 85.58      MOLB
ATOM   2631  N   ALA   160      27.098   7.913  84.118  1.00 87.29      MOLB
ATOM   2632  CA  ALA   160      26.142   7.496  85.144  1.00 89.88      MOLB
ATOM   2633  CB  ALA   160      25.459   6.179  84.739  1.00 85.77      MOLB
ATOM   2634  C   ALA   160      26.904   7.325  86.469  1.00 93.11      MOLB
ATOM   2635  O   ALA   160      26.814   8.240  87.323  1.00 91.56      MOLB
ATOM   2636  OXT ALA   160      27.610   6.298  86.628  1.00 94.17      MOLB
ATOM   2637  CB  TRP     1      66.257  28.845   9.872  1.00 30.99      MOLC
ATOM   2638  CG  TRP     1      66.511  27.447  10.316  1.00 33.57      MOLC
ATOM   2639  CD2 TRP     1      67.534  27.019  11.220  1.00 35.64      MOLC
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ATOM	2640	CE2	TRP	1	67.442	25.608	11.319	1.00	37.30	MOLC
ATOM	2641	CE3	TRP	1	68.528	27.694	11.953	1.00	38.12	MOLC
ATOM	2642	CD1	TRP	1	65.854	26.309	9.912	1.00	36.75	MOLC
ATOM	2643	NE1	TRP	1	66.407	25.200	10.513	1.00	31.84	MOLC
ATOM	2644	CZ2	TRP	1	68.304	24.859	12.125	1.00	34.06	MOLC
ATOM	2645	CZ3	TRP	1	69.384	26.958	12.749	1.00	34.97	MOLC
ATOM	2646	CH2	TRP	1	69.267	25.548	12.831	1.00	42.00	MOLC
ATOM	2647	C	TRP	1	64.320	28.585	8.332	1.00	36.37	MOLC
ATOM	2648	O	TRP	1	63.686	27.526	8.272	1.00	32.62	MOLC
ATOM	2649	N	TRP	1	64.008	28.624	10.814	1.00	35.69	MOLC
ATOM	2650	CA	TRP	1	64.782	29.163	9.677	1.00	35.69	MOLC
ATOM	2651	N	THR	2	64.648	29.292	7.265	1.00	28.86	MOLC
ATOM	2652	CA	THR	2	64.335	28.853	5.925	1.00	30.47	MOLC
ATOM	2653	CB	THR	2	63.833	30.024	5.087	1.00	33.99	MOLC
ATOM	2654	OG1	THR	2	64.755	31.124	5.218	1.00	34.30	MOLC
ATOM	2655	CG2	THR	2	62.414	30.452	5.554	1.00	23.18	MOLC
ATOM	2656	C	THR	2	65.628	28.298	5.307	1.00	33.59	MOLC
ATOM	2657	O	THR	2	66.728	28.725	5.671	1.00	39.04	MOLC
ATOM	2658	N	TYR	3	65.494	27.355	4.379	1.00	32.46	MOLC
ATOM	2659	CA	TYR	3	66.640	26.751	3.704	1.00	29.87	MOLC
ATOM	2660	CB	TYR	3	66.485	25.232	3.697	1.00	29.70	MOLC
ATOM	2661	CG	TYR	3	66.402	24.595	5.069	1.00	28.98	MOLC
ATOM	2662	CD1	TYR	3	67.456	24.706	5.976	1.00	32.24	MOLC
ATOM	2663	CE1	TYR	3	67.420	24.053	7.199	1.00	33.71	MOLC
ATOM	2664	CD2	TYR	3	65.304	23.824	5.431	1.00	25.11	MOLC
ATOM	2665	CE2	TYR	3	65.248	23.171	6.663	1.00	28.79	MOLC
ATOM	2666	CZ	TYR	3	66.313	23.290	7.536	1.00	33.54	MOLC
ATOM	2667	OH	TYR	3	66.283	22.646	8.743	1.00	36.99	MOLC
ATOM	2668	C	TYR	3	66.809	27.256	2.259	1.00	34.74	MOLC
ATOM	2669	O	TYR	3	65.831	27.638	1.608	1.00	28.01	MOLC
ATOM	2670	N	HIS	4	68.062	27.274	1.777	1.00	35.15	MOLC
ATOM	2671	CA	HIS	4	68.403	27.732	0.418	1.00	29.56	MOLC
ATOM	2672	CB	HIS	4	68.723	29.221	0.418	1.00	34.30	MOLC
ATOM	2673	CG	HIS	4	67.849	30.010	1.331	1.00	35.60	MOLC
ATOM	2674	CD2	HIS	4	67.897	30.186	2.676	1.00	34.42	MOLC
ATOM	2675	ND1	HIS	4	66.692	30.618	0.904	1.00	28.37	MOLC
ATOM	2676	CE1	HIS	4	66.060	31.130	1.945	1.00	34.58	MOLC
ATOM	2677	NE2	HIS	4	66.770	30.879	3.032	1.00	30.55	MOLC
ATOM	2678	C	HIS	4	69.635	27.006	-0.056	1.00	34.12	MOLC
ATOM	2679	O	HIS	4	70.420	26.518	0.754	1.00	34.28	MOLC
ATOM	2680	N	TYR	5	69.803	26.908	-1.368	1.00	35.26	MOLC
ATOM	2681	CA	TYR	5	70.985	26.266	-1.912	1.00	28.80	MOLC
ATOM	2682	CB	TYR	5	70.769	24.757	-2.110	1.00	32.09	MOLC
ATOM	2683	CG	TYR	5	69.762	24.396	-3.165	1.00	38.59	MOLC
ATOM	2684	CD1	TYR	5	68.401	24.299	-2.855	1.00	31.08	MOLC
ATOM	2685	CE1	TYR	5	67.460	24.031	-3.835	1.00	33.07	MOLC
ATOM	2686	CD2	TYR	5	70.155	24.206	-4.493	1.00	34.11	MOLC
ATOM	2687	CE2	TYR	5	69.213	23.934	-5.489	1.00	34.78	MOLC
ATOM	2688	CZ	TYR	5	67.869	23.853	-5.149	1.00	34.88	MOLC
ATOM	2689	OH	TYR	5	66.934	23.627	-6.118	1.00	37.16	MOLC
ATOM	2690	C	TYR	5	71.337	26.944	-3.221	1.00	32.62	MOLC
ATOM	2691	O	TYR	5	70.457	27.471	-3.915	1.00	32.57	MOLC
ATOM	2692	N	SER	6	72.626	26.971	-3.539	1.00	32.33	MOLC
ATOM	2693	CA	SER	6	73.086	27.582	-4.781	1.00	40.38	MOLC
ATOM	2694	CB	SER	6	74.515	28.114	-4.621	1.00	42.51	MOLC
ATOM	2695	OG	SER	6	75.376	27.086	-4.180	1.00	51.03	MOLC
ATOM	2696	C	SER	6	73.057	26.535	-5.880	1.00	41.50	MOLC
ATOM	2697	O	SER	6	73.375	25.366	-5.634	1.00	45.26	MOLC
ATOM	2698	N	THR	7	72.686	26.944	-7.088	1.00	40.77	MOLC
ATOM	2699	CA	THR	7	72.632	26.003	-8.195	1.00	46.76	MOLC
ATOM	2700	CB	THR	7	71.767	26.507	-9.315	1.00	43.98	MOLC
ATOM	2701	OG1	THR	7	72.299	27.752	-9.779	1.00	49.59	MOLC
ATOM	2702	CG2	THR	7	70.332	26.671	-8.835	1.00	41.08	MOLC
ATOM	2703	C	THR	7	73.985	25.692	-8.801	1.00	45.03	MOLC
ATOM	2704	O	THR	7	74.060	24.947	-9.758	1.00	47.13	MOLC
ATOM	2705	N	LYS	8	75.045	26.278	-8.264	1.00	46.67	MOLC

ATOM	2706	CA	LYS	8	76.394	26.022	-8.762	1.00	46.00	MOLC
ATOM	2707	CB	LYS	8	77.031	27.294	-9.315	1.00	44.86	MOLC
ATOM	2708	CG	LYS	8	76.395	27.826	-10.585	1.00	61.29	MOLC
ATOM	2709	CD	LYS	8	77.167	29.047	-11.103	1.00	72.48	MOLC
ATOM	2710	CE	LYS	8	76.616	29.561	-12.435	1.00	80.48	MOLC
ATOM	2711	NZ	LYS	8	77.471	30.636	-13.050	1.00	81.46	MOLC
ATOM	2712	C	LYS	8	77.247	25.495	-7.621	1.00	46.65	MOLC
ATOM	2713	O	LYS	8	77.017	25.827	-6.457	1.00	53.13	MOLC
ATOM	2714	N	ALA	9	78.226	24.666	-7.949	1.00	46.57	MOLC
ATOM	2715	CA	ALA	9	79.106	24.099	-6.937	1.00	50.13	MOLC
ATOM	2716	CB	ALA	9	79.531	22.691	-7.354	1.00	46.60	MOLC
ATOM	2717	C	ALA	9	80.331	24.994	-6.751	1.00	52.92	MOLC
ATOM	2718	O	ALA	9	80.872	25.533	-7.718	1.00	57.37	MOLC
ATOM	2719	N	TYR	10	80.761	25.168	-5.510	1.00	50.84	MOLC
ATOM	2720	CA	TYR	10	81.925	26.001	-5.238	1.00	50.57	MOLC
ATOM	2721	CB	TYR	10	81.502	27.452	-4.991	1.00	54.90	MOLC
ATOM	2722	CG	TYR	10	81.160	28.251	-6.237	1.00	59.97	MOLC
ATOM	2723	CD1	TYR	10	82.133	28.527	-7.202	1.00	64.39	MOLC
ATOM	2724	CE1	TYR	10	81.841	29.305	-8.324	1.00	69.86	MOLC
ATOM	2725	CD2	TYR	10	79.873	28.772	-6.428	1.00	65.96	MOLC
ATOM	2726	CE2	TYR	10	79.562	29.555	-7.551	1.00	66.50	MOLC
ATOM	2727	CZ	TYR	10	80.555	29.818	-8.491	1.00	74.01	MOLC
ATOM	2728	OH	TYR	10	80.278	30.605	-9.593	1.00	80.31	MOLC
ATOM	2729	C	TYR	10	82.652	25.472	-4.019	1.00	55.05	MOLC
ATOM	2730	O	TYR	10	82.157	24.575	-3.335	1.00	56.11	MOLC
ATOM	2731	N	SER	11	83.835	26.015	-3.752	1.00	57.76	MOLC
ATOM	2732	CA	SER	11	84.610	25.598	-2.590	1.00	51.61	MOLC
ATOM	2733	CB	SER	11	85.990	26.244	-2.596	1.00	53.42	MOLC
ATOM	2734	OG	SER	11	85.877	27.633	-2.334	1.00	56.00	MOLC
ATOM	2735	C	SER	11	83.867	26.064	-1.351	1.00	49.65	MOLC
ATOM	2736	O	SER	11	83.020	26.957	-1.417	1.00	45.03	MOLC
ATOM	2737	N	TRP	12	84.203	25.464	-0.220	1.00	51.72	MOLC
ATOM	2738	CA	TRP	12	83.575	25.810	1.039	1.00	53.92	MOLC
ATOM	2739	CB	TRP	12	84.314	25.121	2.175	1.00	56.71	MOLC
ATOM	2740	CG	TRP	12	83.534	25.034	3.435	1.00	59.95	MOLC
ATOM	2741	CD2	TRP	12	83.536	25.979	4.503	1.00	59.41	MOLC
ATOM	2742	CE2	TRP	12	82.677	25.479	5.503	1.00	59.18	MOLC
ATOM	2743	CE3	TRP	12	84.183	27.201	4.714	1.00	59.75	MOLC
ATOM	2744	CD1	TRP	12	82.692	24.029	3.812	1.00	53.48	MOLC
ATOM	2745	NE1	TRP	12	82.175	24.287	5.055	1.00	54.67	MOLC
ATOM	2746	CZ2	TRP	12	82.447	26.160	6.700	1.00	59.12	MOLC
ATOM	2747	CZ3	TRP	12	83.954	27.879	5.904	1.00	60.36	MOLC
ATOM	2748	CH2	TRP	12	83.093	27.355	6.882	1.00	62.66	MOLC
ATOM	2749	C	TRP	12	83.587	27.324	1.249	1.00	60.95	MOLC
ATOM	2750	O	TRP	12	82.536	27.933	1.442	1.00	67.14	MOLC
ATOM	2751	N	ASN	13	84.771	27.933	1.190	1.00	63.21	MOLC
ATOM	2752	CA	ASN	13	84.903	29.377	1.389	1.00	61.92	MOLC
ATOM	2753	CB	ASN	13	86.364	29.805	1.212	1.00	61.85	MOLC
ATOM	2754	CG	ASN	13	87.260	29.309	2.336	1.00	63.75	MOLC
ATOM	2755	OD1	ASN	13	86.994	29.566	3.513	1.00	56.88	MOLC
ATOM	2756	ND2	ASN	13	88.330	28.599	1.978	1.00	60.90	MOLC
ATOM	2757	C	ASN	13	84.007	30.232	0.493	1.00	58.45	MOLC
ATOM	2758	O	ASN	13	83.405	31.203	0.949	1.00	59.84	MOLC
ATOM	2759	N	ILE	14	83.918	29.896	-0.786	1.00	58.48	MOLC
ATOM	2760	CA	ILE	14	83.068	30.680	-1.674	1.00	56.41	MOLC
ATOM	2761	CB	ILE	14	83.373	30.369	-3.159	1.00	55.38	MOLC
ATOM	2762	CG2	ILE	14	82.518	31.246	-4.060	1.00	51.54	MOLC
ATOM	2763	CG1	ILE	14	84.864	30.600	-3.441	1.00	56.13	MOLC
ATOM	2764	CD1	ILE	14	85.299	30.266	-4.864	1.00	47.61	MOLC
ATOM	2765	C	ILE	14	81.598	30.355	-1.348	1.00	57.72	MOLC
ATOM	2766	O	ILE	14	80.713	31.213	-1.469	1.00	54.84	MOLC
ATOM	2767	N	SER	15	81.352	29.116	-0.920	1.00	53.46	MOLC
ATOM	2768	CA	SER	15	80.005	28.691	-0.552	1.00	55.01	MOLC
ATOM	2769	CB	SER	15	79.954	27.185	-0.281	1.00	49.60	MOLC
ATOM	2770	OG	SER	15	79.815	26.476	-1.489	1.00	48.64	MOLC
ATOM	2771	C	SER	15	79.520	29.432	0.684	1.00	52.90	MOLC

ATOM	2772	O	SER	15	78.377	29.898	0.728	1.00 43.62	MOLC
ATOM	2773	N	ARG	16	80.385	29.540	1.690	1.00 52.98	MOLC
ATOM	2774	CA	ARG	16	79.990	30.238	2.906	1.00 58.07	MOLC
ATOM	2775	CB	ARG	16	80.998	30.046	4.043	1.00 57.52	MOLC
ATOM	2776	CG	ARG	16	80.463	30.639	5.329	1.00 63.17	MOLC
ATOM	2777	CD	ARG	16	81.354	30.463	6.550	1.00 61.26	MOLC
ATOM	2778	NE	ARG	16	80.660	31.004	7.723	1.00 56.87	MOLC
ATOM	2779	CZ	ARG	16	81.231	31.260	8.892	1.00 54.10	MOLC
ATOM	2780	NH1	ARG	16	82.524	31.034	9.070	1.00 49.82	MOLC
ATOM	2781	NH2	ARG	16	80.505	31.741	9.887	1.00 55.94	MOLC
ATOM	2782	C	ARG	16	79.782	31.725	2.657	1.00 53.54	MOLC
ATOM	2783	O	ARG	16	79.007	32.358	3.371	1.00 60.33	MOLC
ATOM	2784	N	ALA	17	80.449	32.284	1.646	1.00 48.52	MOLC
ATOM	2785	CA	ALA	17	80.269	33.707	1.339	1.00 48.79	MOLC
ATOM	2786	CB	ALA	17	81.413	34.230	0.442	1.00 49.44	MOLC
ATOM	2787	C	ALA	17	78.925	33.873	0.644	1.00 41.19	MOLC
ATOM	2788	O	ALA	17	78.157	34.796	0.935	1.00 46.82	MOLC
ATOM	2789	N	TYR	18	78.649	32.967	-0.285	1.00 46.66	MOLC
ATOM	2790	CA	TYR	18	77.386	32.966	-1.024	1.00 45.35	MOLC
ATOM	2791	CB	TYR	18	77.286	31.689	-1.877	1.00 46.21	MOLC
ATOM	2792	CG	TYR	18	75.953	31.477	-2.571	1.00 47.93	MOLC
ATOM	2793	CD1	TYR	18	74.912	30.784	-1.943	1.00 47.87	MOLC
ATOM	2794	CE1	TYR	18	73.682	30.604	-2.572	1.00 48.59	MOLC
ATOM	2795	CD2	TYR	18	75.729	31.980	-3.845	1.00 46.95	MOLC
ATOM	2796	CE2	TYR	18	74.508	31.809	-4.481	1.00 49.44	MOLC
ATOM	2797	CZ	TYR	18	73.487	31.125	-3.840	1.00 51.70	MOLC
ATOM	2798	OH	TYR	18	72.267	31.015	-4.459	1.00 42.71	MOLC
ATOM	2799	C	TYR	18	76.236	33.021	-0.025	1.00 42.67	MOLC
ATOM	2800	O	TYR	18	75.338	33.868	-0.132	1.00 47.04	MOLC
ATOM	2801	N	CYS	19	76.279	32.116	0.951	1.00 41.44	MOLC
ATOM	2802	CA	CYS	19	75.248	32.036	1.980	1.00 45.05	MOLC
ATOM	2803	C	CYS	19	75.131	33.308	2.836	1.00 49.73	MOLC
ATOM	2804	O	CYS	19	74.026	33.774	3.118	1.00 49.23	MOLC
ATOM	2805	CB	CYS	19	75.507	30.845	2.903	1.00 42.87	MOLC
ATOM	2806	SG	CYS	19	75.260	29.148	2.251	1.00 45.60	MOLC
ATOM	2807	N	GLN	20	76.258	33.881	3.246	1.00 51.43	MOLC
ATOM	2808	CA	GLN	20	76.205	35.076	4.084	1.00 48.31	MOLC
ATOM	2809	CB	GLN	20	77.563	35.321	4.744	1.00 51.80	MOLC
ATOM	2810	CG	GLN	20	78.025	34.139	5.599	1.00 56.68	MOLC
ATOM	2811	CD	GLN	20	79.376	34.355	6.253	1.00 58.87	MOLC
ATOM	2812	OE1	GLN	20	80.353	34.697	5.588	1.00 58.60	MOLC
ATOM	2813	NE2	GLN	20	79.440	34.141	7.564	1.00 56.06	MOLC
ATOM	2814	C	GLN	20	75.734	36.319	3.350	1.00 46.40	MOLC
ATOM	2815	O	GLN	20	75.044	37.152	3.925	1.00 50.74	MOLC
ATOM	2816	N	ASN	21	76.065	36.444	2.072	1.00 47.22	MOLC
ATOM	2817	CA	ASN	21	75.635	37.624	1.319	1.00 47.22	MOLC
ATOM	2818	CB	ASN	21	76.350	37.702	-0.024	1.00 56.10	MOLC
ATOM	2819	CG	ASN	21	77.772	38.173	0.103	1.00 61.78	MOLC
ATOM	2820	OD1	ASN	21	78.518	38.182	-0.877	1.00 68.32	MOLC
ATOM	2821	ND2	ASN	21	78.163	38.574	1.309	1.00 65.47	MOLC
ATOM	2822	C	ASN	21	74.154	37.655	1.045	1.00 43.66	MOLC
ATOM	2823	O	ASN	21	73.571	38.717	0.871	1.00 51.83	MOLC
ATOM	2824	N	ARG	22	73.542	36.488	0.985	1.00 43.25	MOLC
ATOM	2825	CA	ARG	22	72.121	36.422	0.684	1.00 44.37	MOLC
ATOM	2826	CB	ARG	22	71.873	35.403	-0.428	1.00 48.35	MOLC
ATOM	2827	CG	ARG	22	73.007	35.286	-1.412	1.00 47.74	MOLC
ATOM	2828	CD	ARG	22	72.646	34.370	-2.570	1.00 48.21	MOLC
ATOM	2829	NE	ARG	22	73.261	34.847	-3.800	1.00 51.27	MOLC
ATOM	2830	CZ	ARG	22	74.552	35.163	-3.913	1.00 60.46	MOLC
ATOM	2831	NH1	ARG	22	75.370	35.046	-2.867	1.00 60.84	MOLC
ATOM	2832	NH2	ARG	22	75.025	35.617	-5.067	1.00 63.92	MOLC
ATOM	2833	C	ARG	22	71.288	36.013	1.875	1.00 42.18	MOLC
ATOM	2834	O	ARG	22	70.189	36.514	2.066	1.00 41.03	MOLC
ATOM	2835	N	TYR	23	71.831	35.101	2.678	1.00 42.81	MOLC
ATOM	2836	CA	TYR	23	71.112	34.546	3.811	1.00 40.42	MOLC
ATOM	2837	CB	TYR	23	70.872	33.062	3.508	1.00 35.98	MOLC

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ATOM	2838	CG	TYR	23	70.325	32.846	2.089	1.00	40.25	MOLC
ATOM	2839	CD1	TYR	23	69.116	33.446	1.677	1.00	34.02	MOLC
ATOM	2840	CE1	TYR	23	68.627	33.283	0.365	1.00	23.56	MOLC
ATOM	2841	CD2	TYR	23	71.026	32.075	1.144	1.00	33.74	MOLC
ATOM	2842	CE2	TYR	23	70.535	31.909	-0.173	1.00	22.76	MOLC
ATOM	2843	CZ	TYR	23	69.345	32.510	-0.552	1.00	28.83	MOLC
ATOM	2844	OH	TYR	23	68.867	32.326	-1.845	1.00	33.63	MOLC
ATOM	2845	C	TYR	23	71.808	34.744	5.152	1.00	41.55	MOLC
ATOM	2846	O	TYR	23	72.358	35.806	5.421	1.00	42.11	MOLC
ATOM	2847	N	THR	24	71.768	33.743	6.018	1.00	42.78	MOLC
ATOM	2848	CA	THR	24	72.441	33.902	7.293	1.00	38.96	MOLC
ATOM	2849	CB	THR	24	71.650	33.277	8.438	1.00	36.67	MOLC
ATOM	2850	OG1	THR	24	70.404	33.960	8.584	1.00	29.73	MOLC
ATOM	2851	CG2	THR	24	72.432	33.387	9.735	1.00	35.90	MOLC
ATOM	2852	C	THR	24	73.824	33.269	7.249	1.00	45.20	MOLC
ATOM	2853	O	THR	24	74.817	33.923	7.569	1.00	50.04	MOLC
ATOM	2854	N	ASP	25	73.889	32.004	6.839	1.00	41.80	MOLC
ATOM	2855	CA	ASP	25	75.159	31.294	6.769	1.00	49.03	MOLC
ATOM	2856	CB	ASP	25	75.755	31.194	8.176	1.00	54.98	MOLC
ATOM	2857	CG	ASP	25	77.282	31.225	8.179	1.00	61.71	MOLC
ATOM	2858	OD1	ASP	25	77.907	30.466	7.411	1.00	64.11	MOLC
ATOM	2859	OD2	ASP	25	77.863	32.009	8.965	1.00	69.17	MOLC
ATOM	2860	C	ASP	25	74.920	29.891	6.212	1.00	49.61	MOLC
ATOM	2861	O	ASP	25	73.824	29.590	5.734	1.00	48.16	MOLC
ATOM	2862	N	LEU	26	75.956	29.055	6.258	1.00	46.90	MOLC
ATOM	2863	CA	LEU	26	75.879	27.660	5.819	1.00	48.64	MOLC
ATOM	2864	CB	LEU	26	77.288	27.048	5.706	1.00	46.32	MOLC
ATOM	2865	CG	LEU	26	78.061	27.246	4.390	1.00	49.07	MOLC
ATOM	2866	CD1	LEU	26	79.396	26.515	4.442	1.00	47.24	MOLC
ATOM	2867	CD2	LEU	26	77.237	26.688	3.243	1.00	50.29	MOLC
ATOM	2868	C	LEU	26	75.063	26.882	6.870	1.00	47.87	MOLC
ATOM	2869	O	LEU	26	75.353	26.954	8.058	1.00	49.10	MOLC
ATOM	2870	N	VAL	27	74.055	26.140	6.421	1.00	45.62	MOLC
ATOM	2871	CA	VAL	27	73.170	25.376	7.303	1.00	43.82	MOLC
ATOM	2872	CB	VAL	27	72.430	24.210	6.563	1.00	45.84	MOLC
ATOM	2873	CG1	VAL	27	71.580	24.751	5.452	1.00	52.48	MOLC
ATOM	2874	CG2	VAL	27	73.433	23.188	6.042	1.00	48.12	MOLC
ATOM	2875	C	VAL	27	73.700	24.717	8.551	1.00	37.59	MOLC
ATOM	2876	O	VAL	27	74.693	23.994	8.522	1.00	41.59	MOLC
ATOM	2877	N	ALA	28	72.982	24.945	9.640	1.00	35.50	MOLC
ATOM	2878	CA	ALA	28	73.259	24.300	10.918	1.00	35.79	MOLC
ATOM	2879	CB	ALA	28	73.173	25.309	12.062	1.00	34.76	MOLC
ATOM	2880	C	ALA	28	72.128	23.254	11.050	1.00	41.22	MOLC
ATOM	2881	O	ALA	28	71.013	23.472	10.549	1.00	37.98	MOLC
ATOM	2882	N	ILE	29	72.405	22.139	11.721	1.00	43.91	MOLC
ATOM	2883	CA	ILE	29	71.421	21.071	11.898	1.00	42.22	MOLC
ATOM	2884	CB	ILE	29	71.878	19.801	11.168	1.00	45.83	MOLC
ATOM	2885	CG2	ILE	29	70.888	18.648	11.440	1.00	31.35	MOLC
ATOM	2886	CG1	ILE	29	72.062	20.125	9.675	1.00	31.85	MOLC
ATOM	2887	CD1	ILE	29	72.621	18.974	8.849	1.00	36.26	MOLC
ATOM	2888	C	ILE	29	71.199	20.756	13.377	1.00	45.52	MOLC
ATOM	2889	O	ILE	29	72.149	20.645	14.152	1.00	50.60	MOLC
ATOM	2890	N	GLN	30	69.940	20.594	13.768	1.00	41.04	MOLC
ATOM	2891	CA	GLN	30	69.636	20.351	15.162	1.00	36.06	MOLC
ATOM	2892	CB	GLN	30	68.620	21.392	15.655	1.00	36.86	MOLC
ATOM	2893	CG	GLN	30	68.878	22.825	15.178	1.00	27.34	MOLC
ATOM	2894	CD	GLN	30	67.825	23.817	15.698	1.00	36.83	MOLC
ATOM	2895	OE1	GLN	30	68.032	24.464	16.716	1.00	35.18	MOLC
ATOM	2896	NE2	GLN	30	66.688	23.926	14.997	1.00	33.31	MOLC
ATOM	2897	C	GLN	30	69.113	18.961	15.454	1.00	38.56	MOLC
ATOM	2898	O	GLN	30	69.271	18.463	16.561	1.00	41.72	MOLC
ATOM	2899	N	ASN	31	68.500	18.316	14.470	1.00	42.09	MOLC
ATOM	2900	CA	ASN	31	67.953	16.983	14.712	1.00	38.68	MOLC
ATOM	2901	CB	ASN	31	66.609	17.137	15.405	1.00	37.96	MOLC
ATOM	2902	CG	ASN	31	65.672	17.998	14.601	1.00	44.17	MOLC
ATOM	2903	OD1	ASN	31	65.347	17.664	13.451	1.00	48.15	MOLC

ATOM	2904	ND2	ASN	31	65.250	19.122	15.172	1.00 37.02	MOLC
ATOM	2905	C	ASN	31	67.778	16.186	13.419	1.00 36.22	MOLC
ATOM	2906	O	ASN	31	68.031	16.682	12.319	1.00 34.93	MOLC
ATOM	2907	N	LYS	32	67.328	14.945	13.557	1.00 35.38	MOLC
ATOM	2908	CA	LYS	32	67.130	14.079	12.403	1.00 34.22	MOLC
ATOM	2909	CB	LYS	32	66.976	12.619	12.868	1.00 40.45	MOLC
ATOM	2910	CG	LYS	32	68.188	12.054	13.611	1.00 35.66	MOLC
ATOM	2911	CD	LYS	32	69.464	12.241	12.804	1.00 39.50	MOLC
ATOM	2912	CE	LYS	32	70.641	11.400	13.344	1.00 47.18	MOLC
ATOM	2913	NZ	LYS	32	71.040	11.714	14.748	1.00 43.17	MOLC
ATOM	2914	C	LYS	32	65.947	14.482	11.502	1.00 36.48	MOLC
ATOM	2915	O	LYS	32	65.979	14.244	10.285	1.00 34.59	MOLC
ATOM	2916	N	ASN	33	64.921	15.107	12.073	1.00 29.49	MOLC
ATOM	2917	CA	ASN	33	63.791	15.499	11.245	1.00 34.46	MOLC
ATOM	2918	CB	ASN	33	62.696	16.170	12.084	1.00 24.46	MOLC
ATOM	2919	CG	ASN	33	62.154	15.260	13.192	1.00 30.73	MOLC
ATOM	2920	OD1	ASN	33	62.086	14.054	13.023	1.00 31.23	MOLC
ATOM	2921	ND2	ASN	33	61.742	15.849	14.318	1.00 26.36	MOLC
ATOM	2922	C	ASN	33	64.263	16.437	10.127	1.00 32.67	MOLC
ATOM	2923	O	ASN	33	63.912	16.266	8.948	1.00 28.34	MOLC
ATOM	2924	N	GLU	34	65.104	17.399	10.491	1.00 33.21	MOLC
ATOM	2925	CA	GLU	34	65.604	18.374	9.510	1.00 32.63	MOLC
ATOM	2926	CB	GLU	34	66.408	19.477	10.220	1.00 27.08	MOLC
ATOM	2927	CG	GLU	34	65.661	20.046	11.441	1.00 33.72	MOLC
ATOM	2928	CD	GLU	34	66.460	21.100	12.225	1.00 39.48	MOLC
ATOM	2929	OE1	GLU	34	67.678	21.241	11.981	1.00 32.61	MOLC
ATOM	2930	OE2	GLU	34	65.859	21.787	13.093	1.00 39.48	MOLC
ATOM	2931	C	GLU	34	66.443	17.665	8.451	1.00 32.87	MOLC
ATOM	2932	O	GLU	34	66.457	18.044	7.268	1.00 32.74	MOLC
ATOM	2933	N	ILE	35	67.146	16.622	8.859	1.00 33.45	MOLC
ATOM	2934	CA	ILE	35	67.924	15.939	7.867	1.00 35.52	MOLC
ATOM	2935	CB	ILE	35	68.899	14.971	8.507	1.00 30.91	MOLC
ATOM	2936	CG2	ILE	35	69.559	14.152	7.428	1.00 30.22	MOLC
ATOM	2937	CG1	ILE	35	69.910	15.769	9.317	1.00 34.86	MOLC
ATOM	2938	CD1	ILE	35	71.141	15.029	9.692	1.00 34.96	MOLC
ATOM	2939	C	ILE	35	66.964	15.215	6.919	1.00 33.62	MOLC
ATOM	2940	O	ILE	35	67.160	15.221	5.712	1.00 25.86	MOLC
ATOM	2941	N	ASP	36	65.930	14.587	7.471	1.00 33.87	MOLC
ATOM	2942	CA	ASP	36	64.945	13.904	6.640	1.00 33.40	MOLC
ATOM	2943	CB	ASP	36	63.886	13.235	7.531	1.00 36.54	MOLC
ATOM	2944	CG	ASP	36	62.688	12.704	6.741	1.00 39.26	MOLC
ATOM	2945	OD1	ASP	36	61.646	13.385	6.698	1.00 44.94	MOLC
ATOM	2946	OD2	ASP	36	62.785	11.604	6.163	1.00 38.93	MOLC
ATOM	2947	C	ASP	36	64.290	14.929	5.692	1.00 31.91	MOLC
ATOM	2948	O	ASP	36	64.065	14.647	4.505	1.00 24.00	MOLC
ATOM	2949	N	TYR	37	64.017	16.126	6.216	1.00 27.26	MOLC
ATOM	2950	CA	TYR	37	63.381	17.176	5.419	1.00 31.16	MOLC
ATOM	2951	CB	TYR	37	63.011	18.352	6.315	1.00 25.81	MOLC
ATOM	2952	CG	TYR	37	62.247	19.427	5.602	1.00 26.55	MOLC
ATOM	2953	CD1	TYR	37	60.886	19.282	5.338	1.00 29.32	MOLC
ATOM	2954	CE1	TYR	37	60.190	20.249	4.613	1.00 29.65	MOLC
ATOM	2955	CD2	TYR	37	62.899	20.567	5.132	1.00 24.26	MOLC
ATOM	2956	CE2	TYR	37	62.223	21.529	4.410	1.00 25.58	MOLC
ATOM	2957	CZ	TYR	37	60.868	21.364	4.145	1.00 30.16	MOLC
ATOM	2958	OH	TYR	37	60.216	22.291	3.363	1.00 29.68	MOLC
ATOM	2959	C	TYR	37	64.276	17.645	4.274	1.00 30.61	MOLC
ATOM	2960	O	TYR	37	63.878	17.629	3.097	1.00 30.57	MOLC
ATOM	2961	N	LEU	38	65.480	18.074	4.630	1.00 27.77	MOLC
ATOM	2962	CA	LEU	38	66.452	18.522	3.651	1.00 26.12	MOLC
ATOM	2963	CB	LEU	38	67.796	18.793	4.334	1.00 29.80	MOLC
ATOM	2964	CG	LEU	38	67.808	19.989	5.296	1.00 33.35	MOLC
ATOM	2965	CD1	LEU	38	69.151	20.075	6.044	1.00 29.16	MOLC
ATOM	2966	CD2	LEU	38	67.542	21.270	4.503	1.00 25.11	MOLC
ATOM	2967	C	LEU	38	66.625	17.437	2.587	1.00 32.20	MOLC
ATOM	2968	O	LEU	38	66.542	17.699	1.375	1.00 30.18	MOLC
ATOM	2969	N	ASN	39	66.840	16.206	3.032	1.00 26.99	MOLC

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ATOM	2970	CA	ASN	39	67.026	15.127	2.083	1.00 32.39	MOLC
ATOM	2971	CB	ASN	39	67.277	13.805	2.788	1.00 28.81	MOLC
ATOM	2972	CG	ASN	39	67.620	12.705	1.806	1.00 33.88	MOLC
ATOM	2973	OD1	ASN	39	68.733	12.653	1.272	1.00 25.78	MOLC
ATOM	2974	ND2	ASN	39	66.648	11.836	1.534	1.00 29.32	MOLC
ATOM	2975	C	ASN	39	65.858	14.945	1.103	1.00 32.68	MOLC
ATOM	2976	O	ASN	39	66.072	14.617	-0.068	1.00 31.44	MOLC
ATOM	2977	N	LYS	40	64.621	15.135	1.533	1.00 30.89	MOLC
ATOM	2978	CA	LYS	40	63.586	14.962	0.531	1.00 37.66	MOLC
ATOM	2979	CB	LYS	40	62.290	14.392	1.138	1.00 38.09	MOLC
ATOM	2980	CG	LYS	40	61.526	15.320	2.044	1.00 42.17	MOLC
ATOM	2981	CD	LYS	40	61.153	14.614	3.357	1.00 50.40	MOLC
ATOM	2982	CE	LYS	40	60.240	13.415	3.148	1.00 46.34	MOLC
ATOM	2983	NZ	LYS	40	60.142	12.631	4.406	1.00 36.31	MOLC
ATOM	2984	C	LYS	40	63.306	16.229	-0.294	1.00 32.29	MOLC
ATOM	2985	O	LYS	40	62.923	16.117	-1.445	1.00 32.09	MOLC
ATOM	2986	N	VAL	41	63.547	17.426	0.233	1.00 36.08	MOLC
ATOM	2987	CA	VAL	41	63.238	18.609	-0.587	1.00 30.50	MOLC
ATOM	2988	CB	VAL	41	62.902	19.873	0.280	1.00 30.18	MOLC
ATOM	2989	CG1	VAL	41	61.885	19.518	1.365	1.00 28.14	MOLC
ATOM	2990	CG2	VAL	41	64.160	20.470	0.879	1.00 19.27	MOLC
ATOM	2991	C	VAL	41	64.298	19.007	-1.630	1.00 33.13	MOLC
ATOM	2992	O	VAL	41	63.945	19.519	-2.691	1.00 33.21	MOLC
ATOM	2993	N	LEU	42	65.577	18.758	-1.357	1.00 27.32	MOLC
ATOM	2994	CA	LEU	42	66.631	19.151	-2.300	1.00 32.52	MOLC
ATOM	2995	CB	LEU	42	67.988	19.249	-1.591	1.00 30.98	MOLC
ATOM	2996	CG	LEU	42	67.935	20.118	-0.329	1.00 39.01	MOLC
ATOM	2997	CD1	LEU	42	69.112	19.779	0.568	1.00 37.68	MOLC
ATOM	2998	CD2	LEU	42	67.895	21.596	-0.705	1.00 37.30	MOLC
ATOM	2999	C	LEU	42	66.793	18.263	-3.517	1.00 31.52	MOLC
ATOM	3000	O	LEU	42	66.571	17.058	-3.464	1.00 38.76	MOLC
ATOM	3001	N	PRO	43	67.194	18.854	-4.643	1.00 34.19	MOLC
ATOM	3002	CD	PRO	43	67.576	20.258	-4.864	1.00 35.14	MOLC
ATOM	3003	CA	PRO	43	67.386	18.075	-5.864	1.00 34.54	MOLC
ATOM	3004	CB	PRO	43	67.506	19.147	-6.929	1.00 34.28	MOLC
ATOM	3005	CG	PRO	43	68.302	20.177	-6.205	1.00 34.19	MOLC
ATOM	3006	C	PRO	43	68.687	17.304	-5.738	1.00 35.14	MOLC
ATOM	3007	O	PRO	43	69.490	17.570	-4.841	1.00 33.95	MOLC
ATOM	3008	N	TYR	44	68.905	16.364	-6.648	1.00 30.58	MOLC
ATOM	3009	CA	TYR	44	70.144	15.609	-6.619	1.00 36.07	MOLC
ATOM	3010	CB	TYR	44	69.904	14.216	-7.172	1.00 38.25	MOLC
ATOM	3011	CG	TYR	44	71.172	13.405	-7.197	1.00 42.08	MOLC
ATOM	3012	CD1	TYR	44	71.675	12.828	-6.036	1.00 42.35	MOLC
ATOM	3013	CE1	TYR	44	72.875	12.152	-6.040	1.00 42.87	MOLC
ATOM	3014	CD2	TYR	44	71.907	13.281	-8.368	1.00 46.98	MOLC
ATOM	3015	CE2	TYR	44	73.112	12.609	-8.386	1.00 46.68	MOLC
ATOM	3016	CZ	TYR	44	73.589	12.048	-7.221	1.00 48.80	MOLC
ATOM	3017	OH	TYR	44	74.780	11.375	-7.257	1.00 53.90	MOLC
ATOM	3018	C	TYR	44	71.326	16.248	-7.397	1.00 34.62	MOLC
ATOM	3019	O	TYR	44	71.162	16.703	-8.530	1.00 39.76	MOLC
ATOM	3020	N	TYR	45	72.497	16.279	-6.765	1.00 29.25	MOLC
ATOM	3021	CA	TYR	45	73.754	16.767	-7.365	1.00 34.31	MOLC
ATOM	3022	CB	TYR	45	74.195	18.132	-6.809	1.00 35.88	MOLC
ATOM	3023	CG	TYR	45	73.383	19.313	-7.257	1.00 36.19	MOLC
ATOM	3024	CD1	TYR	45	73.196	19.578	-8.607	1.00 41.37	MOLC
ATOM	3025	CE1	TYR	45	72.390	20.623	-9.026	1.00 39.14	MOLC
ATOM	3026	CD2	TYR	45	72.755	20.138	-6.332	1.00 29.53	MOLC
ATOM	3027	CE2	TYR	45	71.948	21.189	-6.740	1.00 37.52	MOLC
ATOM	3028	CZ	TYR	45	71.759	21.421	-8.091	1.00 38.54	MOLC
ATOM	3029	OH	TYR	45	70.880	22.397	-8.515	1.00 35.05	MOLC
ATOM	3030	C	TYR	45	74.833	15.742	-6.961	1.00 37.41	MOLC
ATOM	3031	O	TYR	45	75.015	15.459	-5.764	1.00 32.95	MOLC
ATOM	3032	N	SER	46	75.562	15.206	-7.941	1.00 42.83	MOLC
ATOM	3033	CA	SER	46	76.598	14.198	-7.651	1.00 42.34	MOLC
ATOM	3034	CB	SER	46	77.197	13.621	-8.948	1.00 38.31	MOLC
ATOM	3035	OG	SER	46	77.739	14.625	-9.792	1.00 43.89	MOLC

ATOM	3036	C	SER	46	77.714	14.678	-6.740	1.00	36.55	MOLC
ATOM	3037	O	SER	46	78.356	13.871	-6.090	1.00	44.56	MOLC
ATOM	3038	N	SER	47	77.937	15.985	-6.678	1.00	40.94	MOLC
ATOM	3039	CA	SER	47	78.985	16.527	-5.828	1.00	37.77	MOLC
ATOM	3040	CB	SER	47	79.571	17.777	-6.474	1.00	47.05	MOLC
ATOM	3041	OG	SER	47	78.538	18.623	-6.926	1.00	51.73	MOLC
ATOM	3042	C	SER	47	78.462	16.847	-4.430	1.00	43.42	MOLC
ATOM	3043	O	SER	47	79.218	17.252	-3.551	1.00	44.99	MOLC
ATOM	3044	N	TYR	48	77.162	16.670	-4.232	1.00	44.48	MOLC
ATOM	3045	CA	TYR	48	76.529	16.906	-2.941	1.00	44.99	MOLC
ATOM	3046	CB	TYR	48	77.081	15.898	-1.944	1.00	39.96	MOLC
ATOM	3047	CG	TYR	48	76.798	14.479	-2.385	1.00	47.27	MOLC
ATOM	3048	CD1	TYR	48	75.485	14.020	-2.508	1.00	45.78	MOLC
ATOM	3049	CE1	TYR	48	75.206	12.722	-2.945	1.00	35.17	MOLC
ATOM	3050	CD2	TYR	48	77.831	13.602	-2.709	1.00	38.86	MOLC
ATOM	3051	CE2	TYR	48	77.563	12.305	-3.143	1.00	37.56	MOLC
ATOM	3052	CZ	TYR	48	76.247	11.869	-3.257	1.00	39.53	MOLC
ATOM	3053	OH	TYR	48	75.973	10.576	-3.657	1.00	42.19	MOLC
ATOM	3054	C	TYR	48	76.569	18.339	-2.372	1.00	46.24	MOLC
ATOM	3055	O	TYR	48	76.777	19.310	-3.109	1.00	45.58	MOLC
ATOM	3056	N	TYR	49	76.361	18.478	-1.065	1.00	42.42	MOLC
ATOM	3057	CA	TYR	49	76.315	19.810	-0.475	1.00	43.31	MOLC
ATOM	3058	CB	TYR	49	74.887	20.139	-0.025	1.00	34.58	MOLC
ATOM	3059	CG	TYR	49	73.812	20.055	-1.095	1.00	41.33	MOLC
ATOM	3060	CD1	TYR	49	73.440	18.829	-1.666	1.00	26.79	MOLC
ATOM	3061	CE1	TYR	49	72.389	18.755	-2.584	1.00	33.06	MOLC
ATOM	3062	CD2	TYR	49	73.110	21.199	-1.481	1.00	34.45	MOLC
ATOM	3063	CE2	TYR	49	72.061	21.134	-2.395	1.00	37.78	MOLC
ATOM	3064	CZ	TYR	49	71.699	19.914	-2.942	1.00	37.79	MOLC
ATOM	3065	OH	TYR	49	70.633	19.872	-3.819	1.00	38.84	MOLC
ATOM	3066	C	TYR	49	77.228	20.090	0.703	1.00	44.30	MOLC
ATOM	3067	O	TYR	49	77.590	19.198	1.460	1.00	49.35	MOLC
ATOM	3068	N	TRP	50	77.570	21.363	0.856	1.00	47.04	MOLC
ATOM	3069	CA	TRP	50	78.394	21.819	1.966	1.00	51.41	MOLC
ATOM	3070	CB	TRP	50	79.202	23.071	1.563	1.00	54.04	MOLC
ATOM	3071	CG	TRP	50	80.472	22.816	0.768	1.00	56.32	MOLC
ATOM	3072	CD2	TRP	50	81.504	21.872	1.073	1.00	56.01	MOLC
ATOM	3073	CE2	TRP	50	82.488	21.988	0.066	1.00	56.93	MOLC
ATOM	3074	CE3	TRP	50	81.693	20.937	2.098	1.00	59.05	MOLC
ATOM	3075	CD1	TRP	50	80.867	23.455	-0.380	1.00	52.90	MOLC
ATOM	3076	NE1	TRP	50	82.075	22.960	-0.807	1.00	54.21	MOLC
ATOM	3077	CZ2	TRP	50	83.644	21.200	0.055	1.00	55.90	MOLC
ATOM	3078	CZ3	TRP	50	82.840	20.152	2.085	1.00	58.60	MOLC
ATOM	3079	CH2	TRP	50	83.801	20.290	1.068	1.00	57.07	MOLC
ATOM	3080	C	TRP	50	77.461	22.186	3.133	1.00	46.71	MOLC
ATOM	3081	O	TRP	50	76.500	22.922	2.947	1.00	45.21	MOLC
ATOM	3082	N	ILE	51	77.731	21.671	4.324	1.00	45.31	MOLC
ATOM	3083	CA	ILE	51	76.917	22.031	5.469	1.00	48.28	MOLC
ATOM	3084	CB	ILE	51	76.342	20.786	6.177	1.00	48.04	MOLC
ATOM	3085	CG2	ILE	51	75.614	19.930	5.162	1.00	45.55	MOLC
ATOM	3086	CG1	ILE	51	77.442	19.961	6.829	1.00	43.43	MOLC
ATOM	3087	CD1	ILE	51	76.892	18.846	7.680	1.00	44.01	MOLC
ATOM	3088	C	ILE	51	77.813	22.836	6.400	1.00	50.10	MOLC
ATOM	3089	O	ILE	51	79.020	22.606	6.455	1.00	55.93	MOLC
ATOM	3090	N	GLY	52	77.225	23.782	7.123	1.00	51.09	MOLC
ATOM	3091	CA	GLY	52	77.999	24.658	7.998	1.00	47.41	MOLC
ATOM	3092	C	GLY	52	78.577	24.163	9.311	1.00	45.60	MOLC
ATOM	3093	O	GLY	52	78.245	24.695	10.366	1.00	50.12	MOLC
ATOM	3094	N	ILE	53	79.446	23.161	9.257	1.00	46.72	MOLC
ATOM	3095	CA	ILE	53	80.070	22.628	10.461	1.00	49.15	MOLC
ATOM	3096	CB	ILE	53	79.514	21.230	10.819	1.00	47.87	MOLC
ATOM	3097	CG2	ILE	53	80.075	20.175	9.878	1.00	40.04	MOLC
ATOM	3098	CG1	ILE	53	79.901	20.860	12.254	1.00	44.55	MOLC
ATOM	3099	CD1	ILE	53	79.243	19.561	12.722	1.00	35.81	MOLC
ATOM	3100	C	ILE	53	81.578	22.505	10.228	1.00	55.67	MOLC
ATOM	3101	O	ILE	53	82.012	22.076	9.154	1.00	54.07	MOLC

ATOM	3102	N	ARG	54	82.362	22.889	11.232	1.00	56.31	MOLC
ATOM	3103	CA	ARG	54	83.816	22.821	11.152	1.00	60.91	MOLC
ATOM	3104	CB	ARG	54	84.420	24.211	10.890	1.00	54.42	MOLC
ATOM	3105	CG	ARG	54	84.131	24.792	9.510	1.00	58.02	MOLC
ATOM	3106	CD	ARG	54	84.532	23.837	8.382	1.00	56.95	MOLC
ATOM	3107	NE	ARG	54	85.975	23.642	8.245	1.00	65.47	MOLC
ATOM	3108	CZ	ARG	54	86.791	24.451	7.570	1.00	65.73	MOLC
ATOM	3109	NH1	ARG	54	86.314	25.527	6.957	1.00	66.85	MOLC
ATOM	3110	NH2	ARG	54	88.090	24.184	7.501	1.00	67.44	MOLC
ATOM	3111	C	ARG	54	84.407	22.248	12.434	1.00	63.17	MOLC
ATOM	3112	O	ARG	54	83.766	22.256	13.485	1.00	63.72	MOLC
ATOM	3113	N	LYS	55	85.641	21.759	12.333	1.00	70.21	MOLC
ATOM	3114	CA	LYS	55	86.350	21.179	13.469	1.00	70.64	MOLC
ATOM	3115	CB	LYS	55	87.047	19.895	13.040	1.00	67.97	MOLC
ATOM	3116	CG	LYS	55	87.617	19.059	14.163	1.00	74.59	MOLC
ATOM	3117	CD	LYS	55	88.365	17.866	13.571	1.00	79.90	MOLC
ATOM	3118	CE	LYS	55	88.922	16.943	14.638	1.00	81.48	MOLC
ATOM	3119	NZ	LYS	55	89.721	15.842	14.025	1.00	81.56	MOLC
ATOM	3120	C	LYS	55	87.379	22.160	14.008	1.00	73.30	MOLC
ATOM	3121	O	LYS	55	87.740	23.140	13.349	1.00	69.67	MOLC
ATOM	3122	N	ASN	56	87.849	21.876	15.216	1.00	79.66	MOLC
ATOM	3123	CA	ASN	56	88.843	22.700	15.901	1.00	84.59	MOLC
ATOM	3124	CB	ASN	56	88.357	24.148	15.994	1.00	88.26	MOLC
ATOM	3125	CG	ASN	56	86.971	24.260	16.619	1.00	93.12	MOLC
ATOM	3126	OD1	ASN	56	86.818	24.204	17.842	1.00	92.70	MOLC
ATOM	3127	ND2	ASN	56	85.953	24.405	15.775	1.00	94.60	MOLC
ATOM	3128	C	ASN	56	88.993	22.108	17.293	1.00	84.29	MOLC
ATOM	3129	O	ASN	56	88.028	22.046	18.051	1.00	85.99	MOLC
ATOM	3130	N	ALA	57	90.195	21.663	17.629	1.00	82.46	MOLC
ATOM	3131	CA	ALA	57	90.415	21.066	18.935	1.00	83.27	MOLC
ATOM	3132	CB	ALA	57	90.221	22.117	20.030	1.00	84.03	MOLC
ATOM	3133	C	ALA	57	89.444	19.897	19.140	1.00	82.71	MOLC
ATOM	3134	O	ALA	57	88.768	19.806	20.166	1.00	80.59	MOLC
ATOM	3135	N	LYS	58	89.375	19.019	18.140	1.00	81.51	MOLC
ATOM	3136	CA	LYS	58	88.531	17.819	18.168	1.00	81.31	MOLC
ATOM	3137	CB	LYS	58	89.043	16.840	19.239	1.00	82.06	MOLC
ATOM	3138	CG	LYS	58	90.523	16.470	19.132	1.00	85.49	MOLC
ATOM	3139	CD	LYS	58	91.446	17.568	19.682	1.00	87.22	MOLC
ATOM	3140	CE	LYS	58	91.674	17.456	21.195	1.00	88.88	MOLC
ATOM	3141	NZ	LYS	58	90.432	17.526	22.015	1.00	86.99	MOLC
ATOM	3142	C	LYS	58	87.019	18.019	18.375	1.00	79.44	MOLC
ATOM	3143	O	LYS	58	86.284	17.041	18.516	1.00	79.10	MOLC
ATOM	3144	N	THR	59	86.547	19.262	18.390	1.00	76.18	MOLC
ATOM	3145	CA	THR	59	85.120	19.506	18.592	1.00	72.63	MOLC
ATOM	3146	CB	THR	59	84.871	20.300	19.875	1.00	74.54	MOLC
ATOM	3147	OG1	THR	59	85.235	19.498	21.001	1.00	75.41	MOLC
ATOM	3148	CG2	THR	59	83.405	20.689	19.984	1.00	74.35	MOLC
ATOM	3149	C	THR	59	84.413	20.224	17.448	1.00	68.95	MOLC
ATOM	3150	O	THR	59	84.665	21.403	17.171	1.00	64.08	MOLC
ATOM	3151	N	TRP	60	83.506	19.500	16.801	1.00	64.20	MOLC
ATOM	3152	CA	TRP	60	82.739	20.047	15.693	1.00	58.25	MOLC
ATOM	3153	CB	TRP	60	81.996	18.926	14.993	1.00	54.36	MOLC
ATOM	3154	CG	TRP	60	82.904	17.884	14.395	1.00	49.48	MOLC
ATOM	3155	CD2	TRP	60	83.516	17.932	13.101	1.00	42.86	MOLC
ATOM	3156	CE2	TRP	60	84.238	16.724	12.933	1.00	50.79	MOLC
ATOM	3157	CE3	TRP	60	83.525	18.881	12.064	1.00	47.27	MOLC
ATOM	3158	CD1	TRP	60	83.274	16.688	14.952	1.00	51.56	MOLC
ATOM	3159	NE1	TRP	60	84.073	15.982	14.076	1.00	51.25	MOLC
ATOM	3160	CZ2	TRP	60	84.962	16.437	11.762	1.00	51.33	MOLC
ATOM	3161	CZ3	TRP	60	84.244	18.599	10.902	1.00	40.94	MOLC
ATOM	3162	CH2	TRP	60	84.952	17.384	10.762	1.00	49.40	MOLC
ATOM	3163	C	TRP	60	81.762	21.107	16.193	1.00	58.90	MOLC
ATOM	3164	O	TRP	60	81.096	20.924	17.211	1.00	63.26	MOLC
ATOM	3165	N	THR	61	81.679	22.221	15.480	1.00	58.08	MOLC
ATOM	3166	CA	THR	61	80.796	23.300	15.891	1.00	59.25	MOLC
ATOM	3167	CB	THR	61	81.613	24.397	16.625	1.00	61.20	MOLC

ATOM	3168	OG1	THR	61	82.204	23.828	17.801	1.00	62.12	MOLC
ATOM	3169	CG2	THR	61	80.735	25.578	17.025	1.00	56.93	MOLC
ATOM	3170	C	THR	61	80.111	23.867	14.655	1.00	62.18	MOLC
ATOM	3171	O	THR	61	80.685	23.834	13.564	1.00	64.43	MOLC
ATOM	3172	N	TRP	62	78.882	24.360	14.823	1.00	58.28	MOLC
ATOM	3173	CA	TRP	62	78.117	24.919	13.714	1.00	55.40	MOLC
ATOM	3174	CB	TRP	62	76.599	24.800	13.969	1.00	52.03	MOLC
ATOM	3175	CG	TRP	62	76.110	23.365	14.063	1.00	51.29	MOLC
ATOM	3176	CD2	TRP	62	75.999	22.415	12.985	1.00	47.18	MOLC
ATOM	3177	CE2	TRP	62	75.646	21.175	13.557	1.00	44.69	MOLC
ATOM	3178	CE3	TRP	62	76.174	22.493	11.595	1.00	39.80	MOLC
ATOM	3179	CD1	TRP	62	75.812	22.676	15.203	1.00	47.99	MOLC
ATOM	3180	NE1	TRP	62	75.536	21.363	14.909	1.00	47.37	MOLC
ATOM	3181	CZ2	TRP	62	75.466	20.022	12.791	1.00	46.57	MOLC
ATOM	3182	CZ3	TRP	62	75.997	21.347	10.836	1.00	39.93	MOLC
ATOM	3183	CH2	TRP	62	75.647	20.127	11.435	1.00	46.07	MOLC
ATOM	3184	C	TRP	62	78.507	26.368	13.542	1.00	52.23	MOLC
ATOM	3185	O	TRP	62	78.218	27.197	14.394	1.00	55.03	MOLC
ATOM	3186	N	VAL	63	79.153	26.667	12.423	1.00	50.06	MOLC
ATOM	3187	CA	VAL	63	79.626	28.015	12.130	1.00	47.54	MOLC
ATOM	3188	CB	VAL	63	80.271	28.070	10.737	1.00	46.88	MOLC
ATOM	3189	CG1	VAL	63	81.392	27.041	10.654	1.00	43.66	MOLC
ATOM	3190	CG2	VAL	63	79.245	27.785	9.678	1.00	44.95	MOLC
ATOM	3191	C	VAL	63	78.605	29.143	12.223	1.00	50.40	MOLC
ATOM	3192	O	VAL	63	78.953	30.263	12.586	1.00	51.46	MOLC
ATOM	3193	N	GLY	64	77.346	28.869	11.904	1.00	50.06	MOLC
ATOM	3194	CA	GLY	64	76.359	29.933	11.962	1.00	45.24	MOLC
ATOM	3195	C	GLY	64	75.737	30.182	13.324	1.00	44.53	MOLC
ATOM	3196	O	GLY	64	75.448	31.329	13.665	1.00	42.26	MOLC
ATOM	3197	N	THR	65	75.527	29.114	14.096	1.00	46.31	MOLC
ATOM	3198	CA	THR	65	74.926	29.224	15.429	1.00	53.85	MOLC
ATOM	3199	CB	THR	65	73.818	28.150	15.628	1.00	56.45	MOLC
ATOM	3200	OG1	THR	65	74.414	26.845	15.753	1.00	51.65	MOLC
ATOM	3201	CG2	THR	65	72.850	28.163	14.436	1.00	52.96	MOLC
ATOM	3202	C	THR	65	75.936	29.083	16.582	1.00	56.66	MOLC
ATOM	3203	O	THR	65	75.572	29.222	17.753	1.00	55.90	MOLC
ATOM	3204	N	LYS	66	77.196	28.814	16.236	1.00	56.41	MOLC
ATOM	3205	CA	LYS	66	78.283	28.634	17.205	1.00	58.44	MOLC
ATOM	3206	CB	LYS	66	78.617	29.947	17.932	1.00	53.66	MOLC
ATOM	3207	CG	LYS	66	79.222	31.036	17.055	1.00	58.64	MOLC
ATOM	3208	CD	LYS	66	79.417	32.329	17.843	1.00	59.02	MOLC
ATOM	3209	CE	LYS	66	79.865	33.481	16.951	1.00	64.46	MOLC
ATOM	3210	NZ	LYS	66	81.156	33.214	16.237	1.00	65.78	MOLC
ATOM	3211	C	LYS	66	77.963	27.573	18.239	1.00	55.32	MOLC
ATOM	3212	O	LYS	66	78.498	27.600	19.332	1.00	57.92	MOLC
ATOM	3213	N	LYS	67	77.087	26.640	17.900	1.00	53.60	MOLC
ATOM	3214	CA	LYS	67	76.727	25.584	18.838	1.00	53.83	MOLC
ATOM	3215	CB	LYS	67	75.246	25.223	18.702	1.00	52.70	MOLC
ATOM	3216	CG	LYS	67	74.261	26.285	19.161	1.00	52.84	MOLC
ATOM	3217	CD	LYS	67	72.829	25.745	19.005	1.00	61.11	MOLC
ATOM	3218	CE	LYS	67	71.753	26.733	19.459	1.00	60.81	MOLC
ATOM	3219	NZ	LYS	67	71.730	26.883	20.933	1.00	62.35	MOLC
ATOM	3220	C	LYS	67	77.559	24.337	18.593	1.00	48.39	MOLC
ATOM	3221	O	LYS	67	77.878	24.017	17.463	1.00	48.68	MOLC
ATOM	3222	N	ALA	68	77.906	23.632	19.659	1.00	48.03	MOLC
ATOM	3223	CA	ALA	68	78.693	22.416	19.520	1.00	50.89	MOLC
ATOM	3224	CB	ALA	68	79.294	22.021	20.863	1.00	48.52	MOLC
ATOM	3225	C	ALA	68	77.803	21.296	19.003	1.00	51.15	MOLC
ATOM	3226	O	ALA	68	76.586	21.328	19.172	1.00	57.84	MOLC
ATOM	3227	N	LEU	69	78.416	20.292	18.397	1.00	49.83	MOLC
ATOM	3228	CA	LEU	69	77.669	19.168	17.853	1.00	52.46	MOLC
ATOM	3229	CB	LEU	69	78.604	18.290	17.022	1.00	43.67	MOLC
ATOM	3230	CG	LEU	69	78.039	17.064	16.305	1.00	47.52	MOLC
ATOM	3231	CD1	LEU	69	76.963	17.464	15.329	1.00	42.82	MOLC
ATOM	3232	CD2	LEU	69	79.164	16.364	15.575	1.00	45.08	MOLC
ATOM	3233	C	LEU	69	76.997	18.330	18.932	1.00	51.98	MOLC

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ATOM	3234	O	LEU	69	77.575	18.089	19.978	1.00	58.27	MOLC
ATOM	3235	N	THR	70	75:767	17.897	18.668	1.00	53.06	MOLC
ATOM	3236	CA	THR	70	75.010	17.061	19.603	1.00	48.92	MOLC
ATOM	3237	CB	THR	70	73.596	17.636	19.873	1.00	54.04	MOLC
ATOM	3238	OG1	THR	70	72.805	17.546	18.674	1.00	53.84	MOLC
ATOM	3239	CG2	THR	70	73.686	19.106	20.321	1.00	46.91	MOLC
ATOM	3240	C	THR	70	74.822	15.664	19.009	1.00	48.87	MOLC
ATOM	3241	O	THR	70	75.128	15.423	17.836	1.00	46.48	MOLC
ATOM	3242	N	ASN	71	74.327	14.740	19.819	1.00	47.87	MOLC
ATOM	3243	CA	ASN	71	74.070	13.397	19.328	1.00	52.27	MOLC
ATOM	3244	CB	ASN	71	73.840	12.432	20.490	1.00	56.20	MOLC
ATOM	3245	CG	ASN	71	75.117	12.121	21.251	1.00	62.12	MOLC
ATOM	3246	OD1	ASN	71	76.150	11.774	20.651	1.00	55.11	MOLC
ATOM	3247	ND2	ASN	71	75.054	12.234	22.578	1.00	57.78	MOLC
ATOM	3248	C	ASN	71	72.824	13.429	18.437	1.00	53.69	MOLC
ATOM	3249	O	ASN	71	72.689	12.622	17.519	1.00	50.13	MOLC
ATOM	3250	N	GLU	72	71.921	14.368	18.724	1.00	53.25	MOLC
ATOM	3251	CA	GLU	72	70.684	14.514	17.966	1.00	56.33	MOLC
ATOM	3252	CB	GLU	72	69.822	15.639	18.544	1.00	53.21	MOLC
ATOM	3253	CG	GLU	72	69.104	15.299	19.836	1.00	53.06	MOLC
ATOM	3254	CD	GLU	72	70.061	14.954	20.970	1.00	62.13	MOLC
ATOM	3255	OE1	GLU	72	71.005	15.751	21.209	1.00	63.78	MOLC
ATOM	3256	OE2	GLU	72	69.864	13.894	21.619	1.00	53.14	MOLC
ATOM	3257	C	GLU	72	70.995	14.842	16.524	1.00	55.05	MOLC
ATOM	3258	O	GLU	72	70.391	14.296	15.594	1.00	51.73	MOLC
ATOM	3259	N	ALA	73	71.950	15.747	16.362	1.00	52.95	MOLC
ATOM	3260	CA	ALA	73	72.380	16.210	15.056	1.00	51.59	MOLC
ATOM	3261	CB	ALA	73	72.930	17.608	15.189	1.00	48.41	MOLC
ATOM	3262	C	ALA	73	73.404	15.315	14.339	1.00	53.36	MOLC
ATOM	3263	O	ALA	73	73.355	15.195	13.110	1.00	52.77	MOLC
ATOM	3264	N	GLU	74	74.325	14.698	15.087	1.00	50.02	MOLC
ATOM	3265	CA	GLU	74	75.362	13.859	14.477	1.00	40.96	MOLC
ATOM	3266	CB	GLU	74	76.182	13.141	15.550	1.00	43.54	MOLC
ATOM	3267	CG	GLU	74	77.328	12.267	14.989	1.00	40.80	MOLC
ATOM	3268	CD	GLU	74	76.885	10.852	14.588	1.00	48.21	MOLC
ATOM	3269	OE1	GLU	74	76.324	10.133	15.448	1.00	44.30	MOLC
ATOM	3270	OE2	GLU	74	77.102	10.453	13.414	1.00	48.66	MOLC
ATOM	3271	C	GLU	74	74.812	12.831	13.516	1.00	42.88	MOLC
ATOM	3272	O	GLU	74	73.999	11.999	13.896	1.00	52.97	MOLC
ATOM	3273	N	ASN	75	75.263	12.863	12.271	1.00	41.23	MOLC
ATOM	3274	CA	ASN	75	74.781	11.899	11.300	1.00	41.54	MOLC
ATOM	3275	CB	ASN	75	73.596	12.496	10.531	1.00	37.09	MOLC
ATOM	3276	CG	ASN	75	72.710	11.441	9.918	1.00	42.24	MOLC
ATOM	3277	OD1	ASN	75	72.373	10.451	10.575	1.00	39.56	MOLC
ATOM	3278	ND2	ASN	75	72.309	11.645	8.654	1.00	40.93	MOLC
ATOM	3279	C	ASN	75	75.872	11.440	10.328	1.00	46.63	MOLC
ATOM	3280	O	ASN	75	75.631	11.346	9.119	1.00	51.26	MOLC
ATOM	3281	N	TRP	76	77.064	11.150	10.857	1.00	49.08	MOLC
ATOM	3282	CA	TRP	76	78.200	10.688	10.045	1.00	44.45	MOLC
ATOM	3283	CB	TRP	76	79.437	10.430	10.919	1.00	45.20	MOLC
ATOM	3284	CG	TRP	76	79.960	11.620	11.650	1.00	42.39	MOLC
ATOM	3285	CD2	TRP	76	80.593	12.770	11.072	1.00	40.65	MOLC
ATOM	3286	CE2	TRP	76	80.891	13.659	12.128	1.00	33.90	MOLC
ATOM	3287	CE3	TRP	76	80.936	13.136	9.760	1.00	46.98	MOLC
ATOM	3288	CD1	TRP	76	79.903	11.848	12.998	1.00	38.09	MOLC
ATOM	3289	NE1	TRP	76	80.460	13.077	13.290	1.00	35.04	MOLC
ATOM	3290	CZ2	TRP	76	81.516	14.889	11.916	1.00	39.35	MOLC
ATOM	3291	CZ3	TRP	76	81.558	14.363	9.549	1.00	40.21	MOLC
ATOM	3292	CH2	TRP	76	81.841	15.223	10.624	1.00	46.08	MOLC
ATOM	3293	C	TRP	76	77.913	9.385	9.313	1.00	46.89	MOLC
ATOM	3294	O	TRP	76	77.303	8.480	9.876	1.00	46.23	MOLC
ATOM	3295	N	ALA	77	78.368	9.280	8.069	1.00	46.36	MOLC
ATOM	3296	CA	ALA	77	78.201	8.037	7.320	1.00	48.41	MOLC
ATOM	3297	CB	ALA	77	78.585	8.226	5.851	1.00	41.82	MOLC
ATOM	3298	C	ALA	77	79.163	7.056	7.981	1.00	50.61	MOLC
ATOM	3299	O	ALA	77	80.070	7.462	8.704	1.00	48.76	MOLC

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ATOM   3300  N   ASP    78      78.967   5.765   7.748  1.00 57.03      MOLC
ATOM   3301  CA  ASP    78      79.857   4.778   8.340  1.00 63.80      MOLC
ATOM   3302  CB  ASP    78      79.464   3.355   7.923  1.00 68.24      MOLC
ATOM   3303  CG  ASP    78      78.147   2.899   8.537  1.00 70.86      MOLC
ATOM   3304  OD1 ASP    78      77.894   3.228   9.720  1.00 65.13      MOLC
ATOM   3305  OD2 ASP    78      77.378   2.197   7.840  1.00 69.17      MOLC
ATOM   3306  C   ASP    78      81.290   5.051   7.896  1.00 66.84      MOLC
ATOM   3307  O   ASP    78      81.544   5.377   6.729  1.00 68.47      MOLC
ATOM   3308  N   ASN    79      82.219   4.937   8.837  1.00 66.78      MOLC
ATOM   3309  CA  ASN    79      83.631   5.132   8.552  1.00 64.71      MOLC
ATOM   3310  CB  ASN    79      84.038   4.309   7.318  1.00 65.96      MOLC
ATOM   3311  CG  ASN    79      83.857   2.800   7.525  1.00 73.47      MOLC
ATOM   3312  OD1 ASN    79      83.845   2.023   6.564  1.00 77.42      MOLC
ATOM   3313  ND2 ASN    79      83.724   2.382   8.786  1.00 75.22      MOLC
ATOM   3314  C   ASN    79      84.012   6.584   8.350  1.00 63.02      MOLC
ATOM   3315  O   ASN    79      84.938   6.877   7.599  1.00 67.54      MOLC
ATOM   3316  N   GLU    80      83.308   7.494   9.017  1.00 59.17      MOLC
ATOM   3317  CA  GLU    80      83.620   8.922   8.914  1.00 53.56      MOLC
ATOM   3318  CB  GLU    80      82.690   9.628   7.918  1.00 53.90      MOLC
ATOM   3319  CG  GLU    80      82.511   8.978   6.542  1.00 56.84      MOLC
ATOM   3320  CD  GLU    80      83.759   9.005   5.664  1.00 57.65      MOLC
ATOM   3321  OE1 GLU    80      84.518  10.002   5.703  1.00 48.08      MOLC
ATOM   3322  OE2 GLU    80      83.962   8.022   4.914  1.00 55.96      MOLC
ATOM   3323  C   GLU    80      83.420   9.554  10.290  1.00 51.25      MOLC
ATOM   3324  O   GLU    80      82.760   8.966  11.155  1.00 43.68      MOLC
ATOM   3325  N   PRO    81      84.025  10.737  10.529  1.00 50.15      MOLC
ATOM   3326  CD  PRO    81      83.783  11.525  11.750  1.00 48.52      MOLC
ATOM   3327  CA  PRO    81      84.876  11.485   9.594  1.00 55.23      MOLC
ATOM   3328  CB  PRO    81      84.869  12.893  10.179  1.00 54.29      MOLC
ATOM   3329  CG  PRO    81      84.808  12.634  11.632  1.00 58.88      MOLC
ATOM   3330  C   PRO    81      86.252  10.812   9.645  1.00 59.40      MOLC
ATOM   3331  O   PRO    81      86.698  10.402  10.715  1.00 58.38      MOLC
ATOM   3332  N   ASN    82      86.924  10.696   8.505  1.00 62.32      MOLC
ATOM   3333  CA  ASN    82      88.203   9.989   8.477  1.00 66.58      MOLC
ATOM   3334  CB  ASN    82      88.040   8.736   7.624  1.00 60.47      MOLC
ATOM   3335  CG  ASN    82      87.977   9.056   6.154  1.00 59.79      MOLC
ATOM   3336  OD1 ASN    82      87.715  10.196   5.768  1.00 61.44      MOLC
ATOM   3337  ND2 ASN    82      88.214   8.054   5.320  1.00 66.11      MOLC
ATOM   3338  C   ASN    82      89.452  10.753   8.007  1.00 70.44      MOLC
ATOM   3339  O   ASN    82      90.513  10.150   7.804  1.00 69.92      MOLC
ATOM   3340  N   ASN    83      89.337  12.064   7.822  1.00 70.92      MOLC
ATOM   3341  CA  ASN    83      90.487  12.839   7.391  1.00 72.40      MOLC
ATOM   3342  CB  ASN    83      90.052  14.057   6.573  1.00 70.38      MOLC
ATOM   3343  CG  ASN    83      89.312  13.673   5.301  1.00 75.12      MOLC
ATOM   3344  OD1 ASN    83      89.615  12.653   4.677  1.00 65.73      MOLC
ATOM   3345  ND2 ASN    83      88.347  14.500   4.901  1.00 75.01      MOLC
ATOM   3346  C   ASN    83      91.264  13.290   8.613  1.00 75.74      MOLC
ATOM   3347  O   ASN    83      90.709  13.404   9.708  1.00 71.63      MOLC
ATOM   3348  N   LYS    84      92.557  13.533   8.423  1.00 79.46      MOLC
ATOM   3349  CA  LYS    84      93.407  13.975   9.518  1.00 81.15      MOLC
ATOM   3350  CB  LYS    84      94.411  12.879   9.892  1.00 81.14      MOLC
ATOM   3351  CG  LYS    84      95.393  12.514   8.787  1.00 81.29      MOLC
ATOM   3352  CD  LYS    84      96.241  11.309   9.188  1.00 76.01      MOLC
ATOM   3353  CE  LYS    84      95.357  10.106   9.462  1.00 69.15      MOLC
ATOM   3354  NZ  LYS    84      94.514   9.776   8.278  1.00 62.66      MOLC
ATOM   3355  C   LYS    84      94.135  15.258   9.140  1.00 81.27      MOLC
ATOM   3356  O   LYS    84      94.402  16.099   9.999  1.00 81.46      MOLC
ATOM   3357  N   ARG    85      94.440  15.419   7.856  1.00 81.41      MOLC
ATOM   3358  CA  ARG    85      95.127  16.621   7.405  1.00 81.45      MOLC
ATOM   3359  CB  ARG    85      95.350  16.580   5.906  1.00 82.32      MOLC
ATOM   3360  CG  ARG    85      96.065  15.353   5.448  1.00 85.50      MOLC
ATOM   3361  CD  ARG    85      96.369  15.457   3.987  1.00 90.52      MOLC
ATOM   3362  NE  ARG    85      96.862  14.191   3.470  1.00100.72      MOLC
ATOM   3363  CZ  ARG    85      97.228  13.994   2.209  1.00108.43      MOLC
ATOM   3364  NH1 ARG    85      97.665  12.799   1.826  1.00111.32      MOLC
ATOM   3365  NH2 ARG    85      97.155  14.990   1.328  1.00110.54      MOLC
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ATOM	3366	C	ARG	85	94.312	17.853	7.743	1.00	82.14	MOLC
ATOM	3367	O	ARG	85	93.167	17.754	8.172	1.00	82.98	MOLC
ATOM	3368	N	ASN	86	94.906	19.022	7.549	1.00	84.28	MOLC
ATOM	3369	CA	ASN	86	94.218	20.270	7.839	1.00	87.37	MOLC
ATOM	3370	CB	ASN	86	95.226	21.338	8.261	1.00	91.23	MOLC
ATOM	3371	CG	ASN	86	96.194	21.688	7.151	1.00	95.85	MOLC
ATOM	3372	OD1	ASN	86	95.865	22.453	6.240	1.00	97.25	MOLC
ATOM	3373	ND2	ASN	86	97.395	21.116	7.209	1.00	99.58	MOLC
ATOM	3374	C	ASN	86	93.465	20.717	6.594	1.00	85.73	MOLC
ATOM	3375	O	ASN	86	93.724	20.224	5.489	1.00	82.77	MOLC
ATOM	3376	N	ASN	87	92.535	21.648	6.775	1.00	82.17	MOLC
ATOM	3377	CA	ASN	87	91.747	22.144	5.659	1.00	79.67	MOLC
ATOM	3378	CB	ASN	87	92.651	22.802	4.620	1.00	83.02	MOLC
ATOM	3379	CG	ASN	87	91.870	23.396	3.462	1.00	86.72	MOLC
ATOM	3380	OD1	ASN	87	91.167	24.399	3.616	1.00	85.20	MOLC
ATOM	3381	ND2	ASN	87	91.981	22.769	2.294	1.00	88.74	MOLC
ATOM	3382	C	ASN	87	90.970	20.996	5.012	1.00	76.42	MOLC
ATOM	3383	O	ASN	87	90.545	21.092	3.864	1.00	76.28	MOLC
ATOM	3384	N	GLU	88	90.803	19.904	5.749	1.00	73.33	MOLC
ATOM	3385	CA	GLU	88	90.052	18.758	5.251	1.00	71.74	MOLC
ATOM	3386	CB	GLU	88	90.946	17.523	5.093	1.00	68.68	MOLC
ATOM	3387	CG	GLU	88	92.046	17.625	4.046	1.00	70.34	MOLC
ATOM	3388	CD	GLU	88	92.704	16.272	3.774	1.00	73.20	MOLC
ATOM	3389	OE1	GLU	88	92.764	15.440	4.715	1.00	70.48	MOLC
ATOM	3390	OE2	GLU	88	93.170	16.042	2.632	1.00	67.01	MOLC
ATOM	3391	C	GLU	88	88.925	18.428	6.230	1.00	71.18	MOLC
ATOM	3392	O	GLU	88	88.431	17.299	6.249	1.00	72.65	MOLC
ATOM	3393	N	ASP	89	88.528	19.409	7.042	1.00	67.16	MOLC
ATOM	3394	CA	ASP	89	87.458	19.206	8.015	1.00	64.76	MOLC
ATOM	3395	CB	ASP	89	87.830	19.835	9.360	1.00	57.86	MOLC
ATOM	3396	CG	ASP	89	87.884	21.337	9.299	1.00	59.32	MOLC
ATOM	3397	OD1	ASP	89	88.605	21.857	8.425	1.00	60.95	MOLC
ATOM	3398	OD2	ASP	89	87.212	22.001	10.119	1.00	57.97	MOLC
ATOM	3399	C	ASP	89	86.107	19.758	7.541	1.00	62.96	MOLC
ATOM	3400	O	ASP	89	85.203	19.976	8.335	1.00	63.06	MOLC
ATOM	3401	N	CYS	90	85.973	19.991	6.243	1.00	64.08	MOLC
ATOM	3402	CA	CYS	90	84.711	20.471	5.692	1.00	62.86	MOLC
ATOM	3403	C	CYS	90	83.803	19.247	5.516	1.00	60.01	MOLC
ATOM	3404	O	CYS	90	84.273	18.172	5.162	1.00	54.35	MOLC
ATOM	3405	CB	CYS	90	84.967	21.193	4.367	1.00	57.65	MOLC
ATOM	3406	SG	CYS	90	85.669	22.849	4.659	1.00	70.84	MOLC
ATOM	3407	N	VAL	91	82.513	19.397	5.790	1.00	59.43	MOLC
ATOM	3408	CA	VAL	91	81.612	18.257	5.682	1.00	55.58	MOLC
ATOM	3409	CB	VAL	91	80.899	17.990	7.020	1.00	55.92	MOLC
ATOM	3410	CG1	VAL	91	80.129	16.686	6.949	1.00	53.73	MOLC
ATOM	3411	CG2	VAL	91	81.907	17.938	8.137	1.00	56.51	MOLC
ATOM	3412	C	VAL	91	80.556	18.410	4.603	1.00	55.68	MOLC
ATOM	3413	O	VAL	91	79.978	19.482	4.420	1.00	58.12	MOLC
ATOM	3414	N	GLU	92	80.302	17.325	3.888	1.00	51.12	MOLC
ATOM	3415	CA	GLU	92	79.295	17.346	2.843	1.00	51.42	MOLC
ATOM	3416	CB	GLU	92	79.869	16.818	1.534	1.00	49.88	MOLC
ATOM	3417	CG	GLU	92	79.975	15.318	1.491	1.00	50.05	MOLC
ATOM	3418	CD	GLU	92	80.645	14.827	0.237	1.00	52.22	MOLC
ATOM	3419	OE1	GLU	92	80.384	15.411	-0.834	1.00	51.28	MOLC
ATOM	3420	OE2	GLU	92	81.423	13.853	0.322	1.00	54.71	MOLC
ATOM	3421	C	GLU	92	78.185	16.428	3.306	1.00	48.02	MOLC
ATOM	3422	O	GLU	92	78.441	15.483	4.057	1.00	48.62	MOLC
ATOM	3423	N	ILE	93	76.960	16.700	2.864	1.00	45.67	MOLC
ATOM	3424	CA	ILE	93	75.816	15.870	3.248	1.00	44.04	MOLC
ATOM	3425	CB	ILE	93	74.665	16.737	3.864	1.00	45.31	MOLC
ATOM	3426	CG2	ILE	93	74.132	17.730	2.851	1.00	32.31	MOLC
ATOM	3427	CG1	ILE	93	73.538	15.838	4.360	1.00	45.28	MOLC
ATOM	3428	CD1	ILE	93	72.591	16.534	5.344	1.00	43.41	MOLC
ATOM	3429	C	ILE	93	75.325	15.116	2.027	1.00	38.75	MOLC
ATOM	3430	O	ILE	93	75.113	15.714	0.975	1.00	36.31	MOLC
ATOM	3431	N	TYR	94	75.163	13.802	2.163	1.00	39.02	MOLC

ATOM	3432	CA	TYR	94	74.709	12.956	1.051	1.00	40.65	MOLC
ATOM	3433	CB	TYR	94	75.066	11.488	1.324	1.00	46.27	MOLC
ATOM	3434	CG	TYR	94	76.560	11.207	1.367	1.00	54.45	MOLC
ATOM	3435	CD1	TYR	94	77.430	11.828	0.471	1.00	55.71	MOLC
ATOM	3436	CE1	TYR	94	78.796	11.563	0.494	1.00	57.38	MOLC
ATOM	3437	CD2	TYR	94	77.099	10.303	2.291	1.00	51.84	MOLC
ATOM	3438	CE2	TYR	94	78.461	10.028	2.320	1.00	54.45	MOLC
ATOM	3439	CZ	TYR	94	79.305	10.663	1.422	1.00	59.62	MOLC
ATOM	3440	OH	TYR	94	80.658	10.422	1.455	1.00	55.45	MOLC
ATOM	3441	C	TYR	94	73.217	13.060	0.676	1.00	37.63	MOLC
ATOM	3442	O	TYR	94	72.448	12.108	0.820	1.00	40.18	MOLC
ATOM	3443	N	ILE	95	72.820	14.221	0.179	1.00	32.44	MOLC
ATOM	3444	CA	ILE	95	71.450	14.419	-0.216	1.00	36.01	MOLC
ATOM	3445	CB	ILE	95	71.194	15.865	-0.663	1.00	32.05	MOLC
ATOM	3446	CG2	ILE	95	69.776	15.978	-1.163	1.00	30.78	MOLC
ATOM	3447	CG1	ILE	95	71.456	16.839	0.492	1.00	30.75	MOLC
ATOM	3448	CD1	ILE	95	70.528	16.650	1.673	1.00	26.83	MOLC
ATOM	3449	C	ILE	95	71.081	13.492	-1.369	1.00	39.94	MOLC
ATOM	3450	O	ILE	95	71.691	13.521	-2.444	1.00	37.39	MOLC
ATOM	3451	N	LYS	96	70.057	12.685	-1.142	1.00	36.27	MOLC
ATOM	3452	CA	LYS	96	69.576	11.742	-2.134	1.00	38.53	MOLC
ATOM	3453	CB	LYS	96	68.963	12.483	-3.329	1.00	41.00	MOLC
ATOM	3454	CG	LYS	96	67.519	12.929	-3.061	1.00	33.16	MOLC
ATOM	3455	CD	LYS	96	66.890	13.647	-4.237	1.00	34.58	MOLC
ATOM	3456	CE	LYS	96	65.418	13.938	-3.970	1.00	35.68	MOLC
ATOM	3457	NZ	LYS	96	65.163	14.803	-2.768	1.00	27.83	MOLC
ATOM	3458	C	LYS	96	70.601	10.735	-2.604	1.00	42.96	MOLC
ATOM	3459	O	LYS	96	70.444	10.131	-3.664	1.00	48.20	MOLC
ATOM	3460	N	SER	97	71.650	10.542	-1.811	1.00	46.27	MOLC
ATOM	3461	CA	SER	97	72.661	9.557	-2.155	1.00	46.87	MOLC
ATOM	3462	CB	SER	97	73.744	9.481	-1.090	1.00	50.60	MOLC
ATOM	3463	OG	SER	97	74.517	8.309	-1.272	1.00	51.90	MOLC
ATOM	3464	C	SER	97	71.946	8.225	-2.201	1.00	47.39	MOLC
ATOM	3465	O	SER	97	71.188	7.890	-1.294	1.00	50.78	MOLC
ATOM	3466	N	PRO	98	72.170	7.447	-3.257	1.00	48.81	MOLC
ATOM	3467	CD	PRO	98	72.946	7.747	-4.474	1.00	49.11	MOLC
ATOM	3468	CA	PRO	98	71.497	6.149	-3.342	1.00	49.82	MOLC
ATOM	3469	CB	PRO	98	71.831	5.676	-4.754	1.00	49.86	MOLC
ATOM	3470	CG	PRO	98	73.139	6.384	-5.059	1.00	57.08	MOLC
ATOM	3471	C	PRO	98	71.901	5.147	-2.256	1.00	53.39	MOLC
ATOM	3472	O	PRO	98	71.139	4.235	-1.940	1.00	54.28	MOLC
ATOM	3473	N	SER	99	73.072	5.336	-1.657	1.00	57.08	MOLC
ATOM	3474	CA	SER	99	73.532	4.414	-0.618	1.00	61.22	MOLC
ATOM	3475	CB	SER	99	75.034	4.135	-0.781	1.00	63.39	MOLC
ATOM	3476	OG	SER	99	75.809	5.313	-0.626	1.00	68.54	MOLC
ATOM	3477	C	SER	99	73.250	4.851	0.825	1.00	59.50	MOLC
ATOM	3478	O	SER	99	72.519	4.173	1.554	1.00	57.76	MOLC
ATOM	3479	N	ALA	100	73.841	5.965	1.244	1.00	53.91	MOLC
ATOM	3480	CA	ALA	100	73.642	6.461	2.608	1.00	54.34	MOLC
ATOM	3481	CB	ALA	100	74.963	6.429	3.362	1.00	54.02	MOLC
ATOM	3482	C	ALA	100	73.097	7.891	2.573	1.00	49.19	MOLC
ATOM	3483	O	ALA	100	73.796	8.845	2.920	1.00	48.76	MOLC
ATOM	3484	N	PRO	101	71.829	8.054	2.182	1.00	41.33	MOLC
ATOM	3485	CD	PRO	101	70.797	7.012	2.046	1.00	39.89	MOLC
ATOM	3486	CA	PRO	101	71.231	9.389	2.105	1.00	40.89	MOLC
ATOM	3487	CB	PRO	101	69.849	9.102	1.525	1.00	39.91	MOLC
ATOM	3488	CG	PRO	101	69.509	7.811	2.167	1.00	39.61	MOLC
ATOM	3489	C	PRO	101	71.174	10.154	3.425	1.00	35.71	MOLC
ATOM	3490	O	PRO	101	70.756	9.623	4.456	1.00	35.99	MOLC
ATOM	3491	N	GLY	102	71.603	11.410	3.393	1.00	33.14	MOLC
ATOM	3492	CA	GLY	102	71.548	12.219	4.601	1.00	37.54	MOLC
ATOM	3493	C	GLY	102	72.796	12.203	5.456	1.00	37.66	MOLC
ATOM	3494	O	GLY	102	72.996	13.096	6.278	1.00	39.43	MOLC
ATOM	3495	N	LYS	103	73.632	11.191	5.260	1.00	38.86	MOLC
ATOM	3496	CA	LYS	103	74.872	11.037	6.018	1.00	41.97	MOLC
ATOM	3497	CB	LYS	103	75.436	9.630	5.792	1.00	37.18	MOLC

ATOM	3498	CG	LYS	103	74.548	8.539	6.375	1.00	43.97	MOLC
ATOM	3499	CD	LYS	103	73.964	8.966	7.723	1.00	41.47	MOLC
ATOM	3500	CE	LYS	103	73.788	7.813	8.693	1.00	42.91	MOLC
ATOM	3501	NZ	LYS	103	73.086	6.613	8.158	1.00	47.60	MOLC
ATOM	3502	C	LYS	103	75.930	12.092	5.698	1.00	42.60	MOLC
ATOM	3503	O	LYS	103	75.903	12.701	4.632	1.00	40.20	MOLC
ATOM	3504	N	TRP	104	76.851	12.313	6.634	1.00	46.79	MOLC
ATOM	3505	CA	TRP	104	77.917	13.305	6.463	1.00	50.06	MOLC
ATOM	3506	CB	TRP	104	78.064	14.158	7.720	1.00	48.06	MOLC
ATOM	3507	CG	TRP	104	76.800	14.794	8.204	1.00	54.11	MOLC
ATOM	3508	CD2	TRP	104	76.584	15.389	9.486	1.00	53.68	MOLC
ATOM	3509	CE2	TRP	104	75.269	15.899	9.494	1.00	55.04	MOLC
ATOM	3510	CE3	TRP	104	77.373	15.541	10.631	1.00	52.20	MOLC
ATOM	3511	CD1	TRP	104	75.640	14.961	7.506	1.00	52.65	MOLC
ATOM	3512	NE1	TRP	104	74.717	15.623	8.273	1.00	52.86	MOLC
ATOM	3513	CZ2	TRP	104	74.725	16.554	10.605	1.00	56.34	MOLC
ATOM	3514	CZ3	TRP	104	76.829	16.193	11.738	1.00	55.71	MOLC
ATOM	3515	CH2	TRP	104	75.521	16.690	11.714	1.00	53.63	MOLC
ATOM	3516	C	TRP	104	79.285	12.683	6.152	1.00	55.27	MOLC
ATOM	3517	O	TRP	104	79.561	11.529	6.506	1.00	48.54	MOLC
ATOM	3518	N	ASN	105	80.140	13.467	5.500	1.00	55.83	MOLC
ATOM	3519	CA	ASN	105	81.478	13.011	5.150	1.00	60.39	MOLC
ATOM	3520	CB	ASN	105	81.454	12.298	3.802	1.00	62.78	MOLC
ATOM	3521	CG	ASN	105	82.849	11.955	3.297	1.00	70.09	MOLC
ATOM	3522	OD1	ASN	105	83.445	10.953	3.701	1.00	76.02	MOLC
ATOM	3523	ND2	ASN	105	83.379	12.795	2.416	1.00	65.43	MOLC
ATOM	3524	C	ASN	105	82.442	14.187	5.076	1.00	60.97	MOLC
ATOM	3525	O	ASN	105	82.141	15.196	4.433	1.00	64.05	MOLC
ATOM	3526	N	ASP	106	83.590	14.073	5.745	1.00	60.25	MOLC
ATOM	3527	CA	ASP	106	84.589	15.143	5.702	1.00	56.93	MOLC
ATOM	3528	CB	ASP	106	85.548	15.065	6.894	1.00	54.26	MOLC
ATOM	3529	CG	ASP	106	86.179	13.695	7.062	1.00	61.96	MOLC
ATOM	3530	OD1	ASP	106	85.952	12.787	6.224	1.00	63.60	MOLC
ATOM	3531	OD2	ASP	106	86.919	13.527	8.053	1.00	61.91	MOLC
ATOM	3532	C	ASP	106	85.349	14.997	4.393	1.00	56.62	MOLC
ATOM	3533	O	ASP	106	85.722	13.888	3.996	1.00	50.50	MOLC
ATOM	3534	N	GLU	107	85.556	16.127	3.726	1.00	58.28	MOLC
ATOM	3535	CA	GLU	107	86.222	16.185	2.430	1.00	59.23	MOLC
ATOM	3536	CB	GLU	107	85.152	16.294	1.337	1.00	60.11	MOLC
ATOM	3537	CG	GLU	107	85.663	16.315	-0.088	1.00	67.49	MOLC
ATOM	3538	CD	GLU	107	86.570	15.146	-0.383	1.00	67.69	MOLC
ATOM	3539	OE1	GLU	107	87.786	15.274	-0.133	1.00	71.68	MOLC
ATOM	3540	OE2	GLU	107	86.069	14.097	-0.845	1.00	53.78	MOLC
ATOM	3541	C	GLU	107	87.150	17.403	2.378	1.00	66.14	MOLC
ATOM	3542	O	GLU	107	87.087	18.286	3.246	1.00	67.38	MOLC
ATOM	3543	N	HIS	108	88.012	17.454	1.365	1.00	66.73	MOLC
ATOM	3544	CA	HIS	108	88.929	18.586	1.212	1.00	62.55	MOLC
ATOM	3545	CB	HIS	108	89.834	18.381	-0.016	1.00	66.35	MOLC
ATOM	3546	CG	HIS	108	91.025	19.289	-0.056	1.00	68.36	MOLC
ATOM	3547	CD2	HIS	108	91.295	20.372	-0.824	1.00	69.38	MOLC
ATOM	3548	ND1	HIS	108	92.106	19.139	0.788	1.00	66.67	MOLC
ATOM	3549	CE1	HIS	108	92.988	20.092	0.543	1.00	68.93	MOLC
ATOM	3550	NE2	HIS	108	92.520	20.854	-0.430	1.00	68.60	MOLC
ATOM	3551	C	HIS	108	88.084	19.840	1.025	1.00	54.81	MOLC
ATOM	3552	O	HIS	108	87.204	19.874	0.169	1.00	51.37	MOLC
ATOM	3553	N	CYS	109	88.366	20.872	1.812	1.00	57.70	MOLC
ATOM	3554	CA	CYS	109	87.614	22.123	1.743	1.00	60.79	MOLC
ATOM	3555	C	CYS	109	87.646	22.869	0.429	1.00	62.67	MOLC
ATOM	3556	O	CYS	109	86.964	23.882	0.285	1.00	67.58	MOLC
ATOM	3557	CB	CYS	109	88.082	23.085	2.822	1.00	63.01	MOLC
ATOM	3558	SG	CYS	109	87.685	22.607	4.531	1.00	69.42	MOLC
ATOM	3559	N	LEU	110	88.441	22.406	-0.527	1.00	66.29	MOLC
ATOM	3560	CA	LEU	110	88.509	23.106	-1.806	1.00	67.16	MOLC
ATOM	3561	CB	LEU	110	89.956	23.189	-2.305	1.00	67.23	MOLC
ATOM	3562	CG	LEU	110	90.795	24.291	-1.659	1.00	69.93	MOLC
ATOM	3563	CD1	LEU	110	92.197	24.260	-2.239	1.00	70.88	MOLC

ATOM	3564	CD2	LEU	110	90.142	25.647	-1.904	1.00	69.96	MOLC
ATOM	3565	C	LEU	110	87.630	22.470	-2.868	1.00	65.88	MOLC
ATOM	3566	O	LEU	110	87.451	23.034	-3.954	1.00	62.66	MOLC
ATOM	3567	N	LYS	111	87.089	21.296	-2.556	1.00	64.01	MOLC
ATOM	3568	CA	LYS	111	86.207	20.600	-3.488	1.00	64.28	MOLC
ATOM	3569	CB	LYS	111	85.737	19.275	-2.879	1.00	68.80	MOLC
ATOM	3570	CG	LYS	111	86.701	18.117	-3.011	1.00	72.71	MOLC
ATOM	3571	CD	LYS	111	86.791	17.666	-4.450	1.00	77.89	MOLC
ATOM	3572	CE	LYS	111	86.952	16.160	-4.529	1.00	83.86	MOLC
ATOM	3573	NZ	LYS	111	88.125	15.711	-3.735	1.00	90.81	MOLC
ATOM	3574	C	LYS	111	84.989	21.479	-3.808	1.00	63.72	MOLC
ATOM	3575	O	LYS	111	84.471	22.191	-2.945	1.00	61.12	MOLC
ATOM	3576	N	LYS	112	84.539	21.439	-5.054	1.00	64.26	MOLC
ATOM	3577	CA	LYS	112	83.385	22.233	-5.442	1.00	63.98	MOLC
ATOM	3578	CB	LYS	112	83.446	22.584	-6.928	1.00	66.59	MOLC
ATOM	3579	CG	LYS	112	84.576	23.530	-7.287	1.00	72.43	MOLC
ATOM	3580	CD	LYS	112	84.632	23.772	-8.795	1.00	80.32	MOLC
ATOM	3581	CE	LYS	112	85.749	24.744	-9.158	1.00	82.38	MOLC
ATOM	3582	NZ	LYS	112	87.071	24.288	-8.619	1.00	83.76	MOLC
ATOM	3583	C	LYS	112	82.098	21.477	-5.150	1.00	62.74	MOLC
ATOM	3584	O	LYS	112	81.857	20.391	-5.692	1.00	60.05	MOLC
ATOM	3585	N	LYS	113	81.293	22.053	-4.263	1.00	58.24	MOLC
ATOM	3586	CA	LYS	113	80.007	21.483	-3.893	1.00	52.58	MOLC
ATOM	3587	CB	LYS	113	80.122	20.718	-2.571	1.00	43.86	MOLC
ATOM	3588	CG	LYS	113	81.036	19.514	-2.664	1.00	51.62	MOLC
ATOM	3589	CD	LYS	113	81.201	18.790	-1.325	1.00	48.87	MOLC
ATOM	3590	CE	LYS	113	82.182	17.624	-1.429	1.00	41.99	MOLC
ATOM	3591	NZ	LYS	113	81.811	16.653	-2.500	1.00	43.58	MOLC
ATOM	3592	C	LYS	113	78.968	22.603	-3.795	1.00	45.54	MOLC
ATOM	3593	O	LYS	113	79.311	23.782	-3.711	1.00	48.78	MOLC
ATOM	3594	N	HIS	114	77.699	22.222	-3.832	1.00	42.88	MOLC
ATOM	3595	CA	HIS	114	76.605	23.172	-3.750	1.00	35.26	MOLC
ATOM	3596	CB	HIS	114	75.315	22.523	-4.235	1.00	40.73	MOLC
ATOM	3597	CG	HIS	114	75.283	22.308	-5.710	1.00	44.22	MOLC
ATOM	3598	CD2	HIS	114	74.729	23.042	-6.702	1.00	39.08	MOLC
ATOM	3599	ND1	HIS	114	75.979	21.292	-6.324	1.00	44.29	MOLC
ATOM	3600	CE1	HIS	114	75.861	21.414	-7.633	1.00	45.37	MOLC
ATOM	3601	NE2	HIS	114	75.109	22.468	-7.887	1.00	42.48	MOLC
ATOM	3602	C	HIS	114	76.411	23.673	-2.349	1.00	34.53	MOLC
ATOM	3603	O	HIS	114	76.341	22.883	-1.412	1.00	36.17	MOLC
ATOM	3604	N	ALA	115	76.305	24.988	-2.205	1.00	37.77	MOLC
ATOM	3605	CA	ALA	115	76.117	25.592	-0.893	1.00	39.81	MOLC
ATOM	3606	CB	ALA	115	76.336	27.086	-0.992	1.00	32.21	MOLC
ATOM	3607	C	ALA	115	74.718	25.310	-0.329	1.00	41.28	MOLC
ATOM	3608	O	ALA	115	73.729	25.465	-1.037	1.00	37.48	MOLC
ATOM	3609	N	LEU	116	74.643	24.877	0.932	1.00	41.46	MOLC
ATOM	3610	CA	LEU	116	73.349	24.636	1.586	1.00	40.60	MOLC
ATOM	3611	CB	LEU	116	73.262	23.224	2.179	1.00	37.43	MOLC
ATOM	3612	CG	LEU	116	71.946	22.734	2.816	1.00	34.83	MOLC
ATOM	3613	CD1	LEU	116	70.774	22.967	1.896	1.00	26.56	MOLC
ATOM	3614	CD2	LEU	116	72.034	21.248	3.100	1.00	29.10	MOLC
ATOM	3615	C	LEU	116	73.286	25.691	2.686	1.00	40.15	MOLC
ATOM	3616	O	LEU	116	74.063	25.662	3.633	1.00	46.46	MOLC
ATOM	3617	N	CYS	117	72.361	26.627	2.536	1.00	37.06	MOLC
ATOM	3618	CA	CYS	117	72.208	27.735	3.460	1.00	40.14	MOLC
ATOM	3619	C	CYS	117	70.894	27.762	4.235	1.00	42.85	MOLC
ATOM	3620	O	CYS	117	69.944	27.038	3.918	1.00	46.67	MOLC
ATOM	3621	CB	CYS	117	72.272	29.048	2.688	1.00	35.57	MOLC
ATOM	3622	SG	CYS	117	73.458	29.193	1.310	1.00	51.88	MOLC
ATOM	3623	N	TYR	118	70.845	28.642	5.234	1.00	41.67	MOLC
ATOM	3624	CA	TYR	118	69.651	28.848	6.026	1.00	36.81	MOLC
ATOM	3625	CB	TYR	118	69.706	28.076	7.344	1.00	42.40	MOLC
ATOM	3626	CG	TYR	118	70.582	28.706	8.406	1.00	43.01	MOLC
ATOM	3627	CD1	TYR	118	71.972	28.558	8.370	1.00	43.53	MOLC
ATOM	3628	CE1	TYR	118	72.792	29.117	9.358	1.00	41.64	MOLC
ATOM	3629	CD2	TYR	118	70.022	29.437	9.451	1.00	37.59	MOLC

ATOM	3630	CE2	TYR	118	70.834	30.012	10.454	1.00	43.58	MOLC
ATOM	3631	CZ	TYR	118	72.220	29.844	10.400	1.00	46.36	MOLC
ATOM	3632	OH	TYR	118	73.028	30.385	11.385	1.00	37.72	MOLC
ATOM	3633	C	TYR	118	69.563	30.327	6.326	1.00	41.29	MOLC
ATOM	3634	O	TYR	118	70.576	31.026	6.319	1.00	41.43	MOLC
ATOM	3635	N	THR	119	68.345	30.806	6.555	1.00	38.90	MOLC
ATOM	3636	CA	THR	119	68.125	32.204	6.921	1.00	32.44	MOLC
ATOM	3637	CB	THR	119	67.218	32.974	5.947	1.00	36.43	MOLC
ATOM	3638	OG1	THR	119	67.772	32.964	4.626	1.00	35.81	MOLC
ATOM	3639	CG2	THR	119	67.071	34.411	6.409	1.00	33.83	MOLC
ATOM	3640	C	THR	119	67.359	32.036	8.221	1.00	36.91	MOLC
ATOM	3641	O	THR	119	66.255	31.474	8.223	1.00	31.80	MOLC
ATOM	3642	N	ALA	120	67.957	32.493	9.318	1.00	33.16	MOLC
ATOM	3643	CA	ALA	120	67.353	32.385	10.639	1.00	35.06	MOLC
ATOM	3644	CB	ALA	120	68.261	33.017	11.693	1.00	35.23	MOLC
ATOM	3645	C	ALA	120	66.001	33.057	10.670	1.00	34.18	MOLC
ATOM	3646	O	ALA	120	65.809	34.102	10.053	1.00	37.21	MOLC
ATOM	3647	N	SER	121	65.065	32.459	11.390	1.00	32.41	MOLC
ATOM	3648	CA	SER	121	63.732	33.030	11.485	1.00	32.09	MOLC
ATOM	3649	CB	SER	121	62.682	31.913	11.492	1.00	35.53	MOLC
ATOM	3650	OG	SER	121	62.666	31.239	10.244	1.00	37.68	MOLC
ATOM	3651	C	SER	121	63.626	33.866	12.751	1.00	34.74	MOLC
ATOM	3652	O	SER	121	62.799	34.778	12.845	1.00	31.31	MOLC
ATOM	3653	N	CYS	122	64.460	33.541	13.731	1.00	30.39	MOLC
ATOM	3654	CA	CYS	122	64.461	34.289	14.971	1.00	39.36	MOLC
ATOM	3655	C	CYS	122	64.971	35.703	14.735	1.00	39.43	MOLC
ATOM	3656	O	CYS	122	66.031	35.896	14.153	1.00	42.21	MOLC
ATOM	3657	CB	CYS	122	65.329	33.572	15.989	1.00	37.75	MOLC
ATOM	3658	SG	CYS	122	64.548	32.029	16.538	1.00	39.50	MOLC
ATOM	3659	N	GLN	123	64.183	36.684	15.158	1.00	48.22	MOLC
ATOM	3660	CA	GLN	123	64.527	38.101	15.006	1.00	51.45	MOLC
ATOM	3661	CB	GLN	123	63.360	38.879	14.396	1.00	53.38	MOLC
ATOM	3662	CG	GLN	123	62.845	38.324	13.086	1.00	57.42	MOLC
ATOM	3663	CD	GLN	123	63.891	38.360	11.992	1.00	66.76	MOLC
ATOM	3664	OE1	GLN	123	63.685	37.822	10.904	1.00	61.74	MOLC
ATOM	3665	NE2	GLN	123	65.023	39.004	12.273	1.00	69.83	MOLC
ATOM	3666	C	GLN	123	64.829	38.684	16.385	1.00	55.51	MOLC
ATOM	3667	O	GLN	123	64.573	38.044	17.414	1.00	54.39	MOLC
ATOM	3668	N	ASP	124	65.351	39.909	16.396	1.00	56.35	MOLC
ATOM	3669	CA	ASP	124	65.712	40.592	17.635	1.00	56.66	MOLC
ATOM	3670	CB	ASP	124	66.176	42.034	17.340	1.00	64.21	MOLC
ATOM	3671	CG	ASP	124	66.361	42.874	18.614	1.00	68.96	MOLC
ATOM	3672	OD1	ASP	124	67.236	42.533	19.449	1.00	66.85	MOLC
ATOM	3673	OD2	ASP	124	65.625	43.875	18.777	1.00	64.46	MOLC
ATOM	3674	C	ASP	124	64.580	40.622	18.652	1.00	52.40	MOLC
ATOM	3675	O	ASP	124	64.796	40.291	19.817	1.00	46.61	MOLC
ATOM	3676	N	MET	125	63.385	41.004	18.199	1.00	54.97	MOLC
ATOM	3677	CA	MET	125	62.207	41.120	19.065	1.00	55.20	MOLC
ATOM	3678	CB	MET	125	61.371	42.316	18.622	1.00	63.40	MOLC
ATOM	3679	CG	MET	125	62.088	43.642	18.784	1.00	72.64	MOLC
ATOM	3680	SD	MET	125	61.003	45.000	18.352	1.00	90.43	MOLC
ATOM	3681	CE	MET	125	59.831	44.919	19.764	1.00	83.86	MOLC
ATOM	3682	C	MET	125	61.326	39.876	19.135	1.00	53.83	MOLC
ATOM	3683	O	MET	125	60.239	39.882	19.738	1.00	45.97	MOLC
ATOM	3684	N	SER	126	61.816	38.810	18.518	1.00	49.54	MOLC
ATOM	3685	CA	SER	126	61.131	37.538	18.494	1.00	41.16	MOLC
ATOM	3686	CB	SER	126	62.047	36.523	17.810	1.00	45.14	MOLC
ATOM	3687	OG	SER	126	61.338	35.376	17.382	1.00	62.18	MOLC
ATOM	3688	C	SER	126	60.799	37.108	19.933	1.00	40.90	MOLC
ATOM	3689	O	SER	126	61.551	37.413	20.858	1.00	45.91	MOLC
ATOM	3690	N	CYS	127	59.664	36.435	20.118	1.00	34.41	MOLC
ATOM	3691	CA	CYS	127	59.236	35.953	21.423	1.00	32.15	MOLC
ATOM	3692	C	CYS	127	59.122	37.049	22.490	1.00	34.34	MOLC
ATOM	3693	O	CYS	127	59.140	36.765	23.693	1.00	32.82	MOLC
ATOM	3694	CB	CYS	127	60.196	34.855	21.905	1.00	39.57	MOLC
ATOM	3695	SG	CYS	127	60.332	33.436	20.757	1.00	38.34	MOLC

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ATOM	3696	N	SER	128	59.004	38.297	22.046	1.00	35.63	MOLC
ATOM	3697	CA	SER	128	58.873	39.446	22.950	1.00	36.10	MOLC
ATOM	3698	CB	SER	128	57.575	39.332	23.763	1.00	39.45	MOLC
ATOM	3699	OG	SER	128	56.457	39.107	22.928	1.00	46.10	MOLC
ATOM	3700	C	SER	128	60.043	39.593	23.933	1.00	37.59	MOLC
ATOM	3701	O	SER	128	59.862	40.139	25.014	1.00	37.13	MOLC
ATOM	3702	N	LYS	129	61.227	39.114	23.556	1.00	37.67	MOLC
ATOM	3703	CA	LYS	129	62.402	39.147	24.427	1.00	44.45	MOLC
ATOM	3704	CB	LYS	129	62.964	40.568	24.539	1.00	44.63	MOLC
ATOM	3705	CG	LYS	129	63.757	41.006	23.330	1.00	51.80	MOLC
ATOM	3706	CD	LYS	129	63.722	42.518	23.192	1.00	64.75	MOLC
ATOM	3707	CE	LYS	129	64.117	42.945	21.779	1.00	71.68	MOLC
ATOM	3708	NZ	LYS	129	63.780	44.371	21.460	1.00	76.57	MOLC
ATOM	3709	C	LYS	129	62.064	38.600	25.818	1.00	40.66	MOLC
ATOM	3710	O	LYS	129	62.715	38.936	26.797	1.00	42.24	MOLC
ATOM	3711	N	GLN	130	61.043	37.749	25.887	1.00	39.86	MOLC
ATOM	3712	CA	GLN	130	60.610	37.156	27.140	1.00	32.59	MOLC
ATOM	3713	CB	GLN	130	59.264	37.752	27.546	1.00	35.82	MOLC
ATOM	3714	CG	GLN	130	59.412	39.229	27.846	1.00	41.25	MOLC
ATOM	3715	CD	GLN	130	58.105	40.012	27.863	1.00	43.12	MOLC
ATOM	3716	OE1	GLN	130	57.009	39.465	27.685	1.00	40.51	MOLC
ATOM	3717	NE2	GLN	130	58.226	41.315	28.078	1.00	38.44	MOLC
ATOM	3718	C	GLN	130	60.555	35.636	27.060	1.00	31.73	MOLC
ATOM	3719	O	GLN	130	59.824	34.969	27.792	1.00	33.13	MOLC
ATOM	3720	N	GLY	131	61.370	35.096	26.166	1.00	32.86	MOLC
ATOM	3721	CA	GLY	131	61.469	33.662	25.992	1.00	27.40	MOLC
ATOM	3722	C	GLY	131	62.589	33.338	25.013	1.00	32.90	MOLC
ATOM	3723	O	GLY	131	63.157	34.217	24.381	1.00	32.71	MOLC
ATOM	3724	N	GLU	132	62.904	32.063	24.885	1.00	31.66	MOLC
ATOM	3725	CA	GLU	132	63.935	31.633	23.974	1.00	31.53	MOLC
ATOM	3726	CB	GLU	132	64.580	30.346	24.484	1.00	32.77	MOLC
ATOM	3727	CG	GLU	132	65.836	29.982	23.723	1.00	51.32	MOLC
ATOM	3728	CD	GLU	132	66.346	28.603	24.075	1.00	55.79	MOLC
ATOM	3729	OE1	GLU	132	66.113	28.163	25.226	1.00	60.06	MOLC
ATOM	3730	OE2	GLU	132	66.985	27.967	23.206	1.00	48.85	MOLC
ATOM	3731	C	GLU	132	63.313	31.375	22.596	1.00	34.20	MOLC
ATOM	3732	O	GLU	132	62.235	30.781	22.481	1.00	32.91	MOLC
ATOM	3733	N	CYS	133	64.007	31.807	21.552	1.00	31.45	MOLC
ATOM	3734	CA	CYS	133	63.515	31.608	20.207	1.00	35.02	MOLC
ATOM	3735	C	CYS	133	64.154	30.366	19.580	1.00	39.67	MOLC
ATOM	3736	O	CYS	133	65.363	30.328	19.339	1.00	39.26	MOLC
ATOM	3737	CB	CYS	133	63.804	32.841	19.363	1.00	34.68	MOLC
ATOM	3738	SG	CYS	133	63.057	32.750	17.705	1.00	34.55	MOLC
ATOM	3739	N	LEU	134	63.340	29.343	19.333	1.00	34.75	MOLC
ATOM	3740	CA	LEU	134	63.844	28.111	18.738	1.00	37.36	MOLC
ATOM	3741	CB	LEU	134	63.221	26.889	19.410	1.00	44.22	MOLC
ATOM	3742	CG	LEU	134	63.369	26.744	20.923	1.00	50.60	MOLC
ATOM	3743	CD1	LEU	134	62.630	25.476	21.359	1.00	61.27	MOLC
ATOM	3744	CD2	LEU	134	64.845	26.685	21.313	1.00	47.32	MOLC
ATOM	3745	C	LEU	134	63.541	28.053	17.253	1.00	36.30	MOLC
ATOM	3746	O	LEU	134	62.388	28.173	16.835	1.00	35.12	MOLC
ATOM	3747	N	GLU	135	64.586	27.871	16.461	1.00	31.90	MOLC
ATOM	3748	CA	GLU	135	64.450	27.762	15.020	1.00	35.61	MOLC
ATOM	3749	CB	GLU	135	65.842	27.844	14.357	1.00	37.77	MOLC
ATOM	3750	CG	GLU	135	66.563	29.200	14.477	1.00	33.26	MOLC
ATOM	3751	CD	GLU	135	65.922	30.312	13.633	1.00	44.69	MOLC
ATOM	3752	OE1	GLU	135	65.203	29.995	12.665	1.00	47.55	MOLC
ATOM	3753	OE2	GLU	135	66.147	31.511	13.924	1.00	45.85	MOLC
ATOM	3754	C	GLU	135	63.793	26.408	14.695	1.00	33.71	MOLC
ATOM	3755	O	GLU	135	64.195	25.376	15.243	1.00	33.88	MOLC
ATOM	3756	N	THR	136	62.765	26.437	13.845	1.00	31.93	MOLC
ATOM	3757	CA	THR	136	62.055	25.232	13.382	1.00	34.11	MOLC
ATOM	3758	CB	THR	136	60.541	25.211	13.785	1.00	31.59	MOLC
ATOM	3759	OG1	THR	136	59.827	26.190	13.020	1.00	29.35	MOLC
ATOM	3760	CG2	THR	136	60.350	25.470	15.267	1.00	27.48	MOLC
ATOM	3761	C	THR	136	62.110	25.231	11.840	1.00	32.92	MOLC

ATOM	3762	O	THR	136	62.582	26.194	11.220	1.00	38.01	MOLC
ATOM	3763	N	ILE	137	61.646	24.159	11.211	1.00	32.17	MOLC
ATOM	3764	CA	ILE	137	61.650	24.109	9.746	1.00	35.85	MOLC
ATOM	3765	CB	ILE	137	61.245	22.716	9.247	1.00	31.69	MOLC
ATOM	3766	CG2	ILE	137	61.179	22.716	7.732	1.00	32.09	MOLC
ATOM	3767	CG1	ILE	137	62.281	21.692	9.723	1.00	37.71	MOLC
ATOM	3768	CD1	ILE	137	61.882	20.229	9.528	1.00	33.75	MOLC
ATOM	3769	C	ILE	137	60.720	25.167	9.118	1.00	35.91	MOLC
ATOM	3770	O	ILE	137	59.499	25.025	9.143	1.00	37.84	MOLC
ATOM	3771	N	GLY	138	61.316	26.236	8.586	1.00	36.46	MOLC
ATOM	3772	CA	GLY	138	60.561	27.319	7.959	1.00	30.73	MOLC
ATOM	3773	C	GLY	138	60.008	28.413	8.875	1.00	35.13	MOLC
ATOM	3774	O	GLY	138	59.501	29.437	8.394	1.00	32.01	MOLC
ATOM	3775	N	ASN	139	60.139	28.230	10.190	1.00	34.49	MOLC
ATOM	3776	CA	ASN	139	59.572	29.173	11.158	1.00	34.74	MOLC
ATOM	3777	CB	ASN	139	58.135	28.700	11.443	1.00	34.61	MOLC
ATOM	3778	CG	ASN	139	57.225	29.804	11.933	1.00	35.85	MOLC
ATOM	3779	OD1	ASN	139	57.655	30.925	12.177	1.00	41.78	MOLC
ATOM	3780	ND2	ASN	139	55.950	29.483	12.081	1.00	28.76	MOLC
ATOM	3781	C	ASN	139	60.408	29.176	12.471	1.00	36.85	MOLC
ATOM	3782	O	ASN	139	61.620	28.947	12.448	1.00	33.82	MOLC
ATOM	3783	N	TYR	140	59.752	29.449	13.601	1.00	30.16	MOLC
ATOM	3784	CA	TYR	140	60.393	29.417	14.915	1.00	31.15	MOLC
ATOM	3785	CB	TYR	140	61.230	30.682	15.186	1.00	28.83	MOLC
ATOM	3786	CG	TYR	140	60.401	31.949	15.359	1.00	28.52	MOLC
ATOM	3787	CD1	TYR	140	60.135	32.778	14.272	1.00	29.68	MOLC
ATOM	3788	CE1	TYR	140	59.326	33.874	14.383	1.00	23.56	MOLC
ATOM	3789	CD2	TYR	140	59.830	32.271	16.583	1.00	26.44	MOLC
ATOM	3790	CE2	TYR	140	59.008	33.384	16.716	1.00	30.77	MOLC
ATOM	3791	CZ	TYR	140	58.759	34.182	15.604	1.00	35.46	MOLC
ATOM	3792	OH	TYR	140	57.942	35.285	15.698	1.00	35.75	MOLC
ATOM	3793	C	TYR	140	59.294	29.343	15.965	1.00	35.97	MOLC
ATOM	3794	O	TYR	140	58.163	29.753	15.702	1.00	35.37	MOLC
ATOM	3795	N	THR	141	59.614	28.798	17.137	1.00	36.64	MOLC
ATOM	3796	CA	THR	141	58.660	28.762	18.237	1.00	34.97	MOLC
ATOM	3797	CB	THR	141	58.213	27.347	18.626	1.00	40.43	MOLC
ATOM	3798	OG1	THR	141	59.357	26.512	18.845	1.00	48.97	MOLC
ATOM	3799	CG2	THR	141	57.320	26.766	17.547	1.00	45.80	MOLC
ATOM	3800	C	THR	141	59.314	29.408	19.451	1.00	36.37	MOLC
ATOM	3801	O	THR	141	60.509	29.655	19.463	1.00	36.11	MOLC
ATOM	3802	N	CYS	142	58.511	29.681	20.468	1.00	37.89	MOLC
ATOM	3803	CA	CYS	142	58.987	30.317	21.681	1.00	33.60	MOLC
ATOM	3804	C	CYS	142	58.837	29.417	22.900	1.00	32.24	MOLC
ATOM	3805	O	CYS	142	57.811	28.779	23.087	1.00	35.12	MOLC
ATOM	3806	CB	CYS	142	58.215	31.625	21.914	1.00	28.97	MOLC
ATOM	3807	SG	CYS	142	58.395	32.838	20.576	1.00	37.19	MOLC
ATOM	3808	N	SER	143	59.882	29.358	23.713	1.00	39.08	MOLC
ATOM	3809	CA	SER	143	59.874	28.578	24.950	1.00	41.67	MOLC
ATOM	3810	CB	SER	143	61.076	27.631	24.981	1.00	37.87	MOLC
ATOM	3811	OG	SER	143	61.190	27.033	26.254	1.00	48.77	MOLC
ATOM	3812	C	SER	143	60.003	29.668	26.010	1.00	40.51	MOLC
ATOM	3813	O	SER	143	61.109	30.079	26.367	1.00	44.49	MOLC
ATOM	3814	N	CYS	144	58.866	30.160	26.482	1.00	39.85	MOLC
ATOM	3815	CA	CYS	144	58.855	31.255	27.444	1.00	39.28	MOLC
ATOM	3816	C	CYS	144	59.656	31.050	28.730	1.00	38.56	MOLC
ATOM	3817	O	CYS	144	59.792	29.946	29.223	1.00	24.68	MOLC
ATOM	3818	CB	CYS	144	57.402	31.642	27.771	1.00	40.11	MOLC
ATOM	3819	SG	CYS	144	56.429	31.983	26.259	1.00	41.81	MOLC
ATOM	3820	N	TYR	145	60.212	32.143	29.247	1.00	42.88	MOLC
ATOM	3821	CA	TYR	145	60.970	32.090	30.484	1.00	43.94	MOLC
ATOM	3822	CB	TYR	145	61.892	33.290	30.616	1.00	36.46	MOLC
ATOM	3823	CG	TYR	145	62.879	33.472	29.503	1.00	34.44	MOLC
ATOM	3824	CD1	TYR	145	63.707	32.426	29.096	1.00	34.45	MOLC
ATOM	3825	CE1	TYR	145	64.667	32.613	28.091	1.00	38.97	MOLC
ATOM	3826	CD2	TYR	145	63.027	34.715	28.881	1.00	27.92	MOLC
ATOM	3827	CE2	TYR	145	63.981	34.915	27.879	1.00	32.65	MOLC

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ATOM	3828	CZ	TYR	145	64.799	33.862	27.489	1.00	36.37	MOLC
ATOM	3829	OH	TYR	145	65.759	34.072	26.515	1.00	47.45	MOLC
ATOM	3830	C	TYR	145	59.931	32.160	31.596	1.00	48.96	MOLC
ATOM	3831	O	TYR	145	58.765	32.502	31.355	1.00	46.77	MOLC
ATOM	3832	N	PRO	146	60.332	31.824	32.829	1.00	51.17	MOLC
ATOM	3833	CD	PRO	146	61.590	31.171	33.238	1.00	52.65	MOLC
ATOM	3834	CA	PRO	146	59.386	31.877	33.943	1.00	51.44	MOLC
ATOM	3835	CB	PRO	146	60.278	31.598	35.141	1.00	49.64	MOLC
ATOM	3836	CG	PRO	146	61.226	30.571	34.581	1.00	49.75	MOLC
ATOM	3837	C	PRO	146	58.661	33.228	34.040	1.00	51.73	MOLC
ATOM	3838	O	PRO	146	59.265	34.289	33.861	1.00	54.11	MOLC
ATOM	3839	N	GLY	147	57.360	33.185	34.296	1.00	47.30	MOLC
ATOM	3840	CA	GLY	147	56.608	34.420	34.427	1.00	51.34	MOLC
ATOM	3841	C	GLY	147	55.971	34.968	33.165	1.00	50.73	MOLC
ATOM	3842	O	GLY	147	55.253	35.962	33.226	1.00	53.88	MOLC
ATOM	3843	N	PHE	148	56.240	34.344	32.023	1.00	47.83	MOLC
ATOM	3844	CA	PHE	148	55.646	34.792	30.769	1.00	48.83	MOLC
ATOM	3845	CB	PHE	148	56.672	35.525	29.927	1.00	52.20	MOLC
ATOM	3846	CG	PHE	148	57.369	36.617	30.657	1.00	55.99	MOLC
ATOM	3847	CD1	PHE	148	58.381	36.322	31.570	1.00	55.31	MOLC
ATOM	3848	CD2	PHE	148	57.010	37.943	30.446	1.00	52.83	MOLC
ATOM	3849	CE1	PHE	148	59.021	37.334	32.260	1.00	54.48	MOLC
ATOM	3850	CE2	PHE	148	57.644	38.971	31.132	1.00	56.95	MOLC
ATOM	3851	CZ	PHE	148	58.652	38.670	32.041	1.00	54.86	MOLC
ATOM	3852	C	PHE	148	55.066	33.633	29.966	1.00	44.38	MOLC
ATOM	3853	O	PHE	148	55.564	32.512	30.015	1.00	42.44	MOLC
ATOM	3854	N	TYR	149	54.013	33.916	29.215	1.00	38.77	MOLC
ATOM	3855	CA	TYR	149	53.364	32.889	28.429	1.00	34.19	MOLC
ATOM	3856	CB	TYR	149	52.304	32.161	29.277	1.00	39.83	MOLC
ATOM	3857	CG	TYR	149	51.188	33.038	29.836	1.00	41.35	MOLC
ATOM	3858	CD1	TYR	149	51.375	33.800	30.996	1.00	43.80	MOLC
ATOM	3859	CE1	TYR	149	50.325	34.585	31.535	1.00	52.48	MOLC
ATOM	3860	CD2	TYR	149	49.930	33.080	29.221	1.00	46.54	MOLC
ATOM	3861	CE2	TYR	149	48.875	33.852	29.747	1.00	44.18	MOLC
ATOM	3862	CZ	TYR	149	49.077	34.596	30.901	1.00	51.57	MOLC
ATOM	3863	OH	TYR	149	48.034	35.319	31.435	1.00	53.15	MOLC
ATOM	3864	C	TYR	149	52.734	33.464	27.166	1.00	39.98	MOLC
ATOM	3865	O	TYR	149	52.771	34.688	26.925	1.00	38.50	MOLC
ATOM	3866	N	GLY	150	52.158	32.567	26.364	1.00	37.83	MOLC
ATOM	3867	CA	GLY	150	51.552	32.956	25.109	1.00	37.92	MOLC
ATOM	3868	C	GLY	150	52.469	32.528	23.966	1.00	43.96	MOLC
ATOM	3869	O	GLY	150	53.663	32.271	24.207	1.00	39.97	MOLC
ATOM	3870	N	PRO	151	51.956	32.447	22.718	1.00	38.99	MOLC
ATOM	3871	CD	PRO	151	50.589	32.864	22.367	1.00	40.90	MOLC
ATOM	3872	CA	PRO	151	52.705	32.047	21.514	1.00	37.06	MOLC
ATOM	3873	CB	PRO	151	51.664	32.162	20.404	1.00	40.31	MOLC
ATOM	3874	CG	PRO	151	50.733	33.222	20.911	1.00	41.54	MOLC
ATOM	3875	C	PRO	151	53.970	32.867	21.233	1.00	37.22	MOLC
ATOM	3876	O	PRO	151	54.929	32.348	20.666	1.00	36.58	MOLC
ATOM	3877	N	GLU	152	53.956	34.144	21.619	1.00	33.78	MOLC
ATOM	3878	CA	GLU	152	55.108	35.026	21.474	1.00	38.87	MOLC
ATOM	3879	CB	GLU	152	54.724	36.280	20.691	1.00	41.53	MOLC
ATOM	3880	CG	GLU	152	54.630	36.134	19.194	1.00	47.33	MOLC
ATOM	3881	CD	GLU	152	55.947	35.776	18.554	1.00	50.28	MOLC
ATOM	3882	OE1	GLU	152	57.004	36.261	19.010	1.00	53.51	MOLC
ATOM	3883	OE2	GLU	152	55.923	35.012	17.575	1.00	58.93	MOLC
ATOM	3884	C	GLU	152	55.600	35.467	22.879	1.00	40.91	MOLC
ATOM	3885	O	GLU	152	56.324	36.461	22.992	1.00	34.11	MOLC
ATOM	3886	N	CYS	153	55.186	34.742	23.926	1.00	35.11	MOLC
ATOM	3887	CA	CYS	153	55.539	35.058	25.318	1.00	41.46	MOLC
ATOM	3888	C	CYS	153	55.125	36.495	25.624	1.00	42.91	MOLC
ATOM	3889	O	CYS	153	55.763	37.206	26.411	1.00	40.87	MOLC
ATOM	3890	CB	CYS	153	57.045	34.884	25.548	1.00	33.37	MOLC
ATOM	3891	SG	CYS	153	57.613	33.213	25.137	1.00	39.03	MOLC
ATOM	3892	N	GLU	154	54.035	36.907	24.996	1.00	43.28	MOLC
ATOM	3893	CA	GLU	154	53.537	38.255	25.145	1.00	43.05	MOLC

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ATOM	3894	CB	GLU	154	52.650	38.629	23.953	1.00	43.67	MOLC
ATOM	3895	CG	GLU	154	51.391	37.788	23.807	1.00	44.58	MOLC
ATOM	3896	CD	GLU	154	51.558	36.659	22.818	1.00	53.53	MOLC
ATOM	3897	OE1	GLU	154	52.306	35.698	23.116	1.00	54.19	MOLC
ATOM	3898	OE2	GLU	154	50.943	36.742	21.726	1.00	63.33	MOLC
ATOM	3899	C	GLU	154	52.771	38.486	26.419	1.00	46.25	MOLC
ATOM	3900	O	GLU	154	52.652	39.625	26.853	1.00	51.12	MOLC
ATOM	3901	N	TYR	155	52.235	37.422	27.012	1.00	50.76	MOLC
ATOM	3902	CA	TYR	155	51.478	37.563	28.254	1.00	54.43	MOLC
ATOM	3903	CB	TYR	155	50.366	36.505	28.339	1.00	55.62	MOLC
ATOM	3904	CG	TYR	155	49.356	36.598	27.218	1.00	58.16	MOLC
ATOM	3905	CD1	TYR	155	48.587	37.745	27.040	1.00	59.34	MOLC
ATOM	3906	CE1	TYR	155	47.694	37.854	25.970	1.00	60.25	MOLC
ATOM	3907	CD2	TYR	155	49.203	35.553	26.300	1.00	57.88	MOLC
ATOM	3908	CE2	TYR	155	48.318	35.653	25.228	1.00	53.31	MOLC
ATOM	3909	CZ	TYR	155	47.570	36.804	25.067	1.00	59.95	MOLC
ATOM	3910	OH	TYR	155	46.722	36.922	23.990	1.00	63.50	MOLC
ATOM	3911	C	TYR	155	52.414	37.444	29.456	1.00	55.89	MOLC
ATOM	3912	O	TYR	155	53.267	36.549	29.517	1.00	51.64	MOLC
ATOM	3913	N	VAL	156	52.241	38.357	30.411	1.00	56.00	MOLC
ATOM	3914	CA	VAL	156	53.076	38.398	31.608	1.00	56.26	MOLC
ATOM	3915	CB	VAL	156	53.802	39.782	31.714	1.00	57.48	MOLC
ATOM	3916	CG1	VAL	156	52.872	40.897	31.265	1.00	57.45	MOLC
ATOM	3917	CG2	VAL	156	54.267	40.033	33.140	1.00	58.05	MOLC
ATOM	3918	C	VAL	156	52.287	38.116	32.886	1.00	56.50	MOLC
ATOM	3919	O	VAL	156	51.302	38.799	33.182	1.00	51.96	MOLC
ATOM	3920	N	ARG	157	52.733	37.102	33.629	1.00	55.76	MOLC
ATOM	3921	CA	ARG	157	52.098	36.697	34.885	1.00	61.52	MOLC
ATOM	3922	CB	ARG	157	52.830	35.502	35.484	1.00	55.65	MOLC
ATOM	3923	CG	ARG	157	52.551	34.212	34.766	1.00	54.70	MOLC
ATOM	3924	CD	ARG	157	51.133	33.771	35.044	1.00	55.81	MOLC
ATOM	3925	NE	ARG	157	50.999	33.262	36.404	1.00	55.17	MOLC
ATOM	3926	CZ	ARG	157	51.483	32.089	36.814	1.00	54.94	MOLC
ATOM	3927	NH1	ARG	157	52.132	31.298	35.962	1.00	46.62	MOLC
ATOM	3928	NH2	ARG	157	51.326	31.709	38.078	1.00	39.53	MOLC
ATOM	3929	C	ARG	157	52.060	37.819	35.917	1.00	69.32	MOLC
ATOM	3930	O	ARG	157	53.073	38.472	36.179	1.00	67.73	MOLC
ATOM	3931	N	ASP	158	50.881	38.024	36.502	1.00	76.27	MOLC
ATOM	3932	CA	ASP	158	50.659	39.058	37.516	1.00	84.39	MOLC
ATOM	3933	CB	ASP	158	49.158	39.155	37.838	1.00	86.41	MOLC
ATOM	3934	CG	ASP	158	48.326	39.628	36.646	1.00	92.45	MOLC
ATOM	3935	OD1	ASP	158	47.085	39.446	36.664	1.00	93.57	MOLC
ATOM	3936	OD2	ASP	158	48.914	40.190	35.695	1.00	92.64	MOLC
ATOM	3937	C	ASP	158	51.448	38.789	38.806	1.00	88.40	MOLC
ATOM	3938	O	ASP	158	51.133	37.861	39.557	1.00	86.25	MOLC
ATOM	3939	N	ALA	159	52.473	39.609	39.047	1.00	94.36	MOLC
ATOM	3940	CA	ALA	159	53.323	39.495	40.234	1.00	99.59	MOLC
ATOM	3941	CB	ALA	159	52.541	39.942	41.478	1.00	100.12	MOLC
ATOM	3942	C	ALA	159	53.921	38.093	40.455	1.00	101.78	MOLC
ATOM	3943	O	ALA	159	55.162	38.016	40.597	1.00	102.25	MOLC
ATOM	3944	OXT	ALA	159	53.162	37.092	40.497	1.00	102.91	MOLC
ATOM	3945	CB	TRP	1	39.995	26.169	23.966	1.00	38.93	MOLD
ATOM	3946	CG	TRP	1	40.811	26.233	25.237	1.00	38.21	MOLD
ATOM	3947	CD2	TRP	1	41.026	25.163	26.170	1.00	34.84	MOLD
ATOM	3948	CE2	TRP	1	41.805	25.682	27.228	1.00	25.39	MOLD
ATOM	3949	CE3	TRP	1	40.633	23.814	26.211	1.00	30.44	MOLD
ATOM	3950	CD1	TRP	1	41.452	27.323	25.753	1.00	40.06	MOLD
ATOM	3951	NE1	TRP	1	42.051	26.999	26.950	1.00	36.69	MOLD
ATOM	3952	CZ2	TRP	1	42.199	24.906	28.318	1.00	29.83	MOLD
ATOM	3953	CZ3	TRP	1	41.025	23.038	27.296	1.00	38.36	MOLD
ATOM	3954	CH2	TRP	1	41.804	23.591	28.340	1.00	34.13	MOLD
ATOM	3955	C	TRP	1	40.521	28.325	22.910	1.00	41.54	MOLD
ATOM	3956	O	TRP	1	41.491	29.009	23.229	1.00	41.31	MOLD
ATOM	3957	N	TRP	1	42.078	26.385	22.650	1.00	44.97	MOLD
ATOM	3958	CA	TRP	1	40.661	26.828	22.761	1.00	40.07	MOLD
ATOM	3959	N	THR	2	39.313	28.832	22.653	1.00	44.84	MOLD

ATOM	3960	CA	THR	2	39.011	30.263	22.827	1.00 44.63	MOLD
ATOM	3961	CB	THR	2	38.348	30.916	21.586	1.00 44.98	MOLD
ATOM	3962	OG1	THR	2	37.385	30.018	21.012	1.00 44.52	MOLD
ATOM	3963	CG2	THR	2	39.407	31.306	20.568	1.00 42.48	MOLD
ATOM	3964	C	THR	2	38.038	30.336	23.995	1.00 43.22	MOLD
ATOM	3965	O	THR	2	37.278	29.389	24.254	1.00 43.87	MOLD
ATOM	3966	N	TYR	3	38.067	31.452	24.703	1.00 46.31	MOLD
ATOM	3967	CA	TYR	3	37.204	31.623	25.867	1.00 51.08	MOLD
ATOM	3968	CB	TYR	3	38.010	32.182	27.034	1.00 47.87	MOLD
ATOM	3969	CG	TYR	3	39.146	31.316	27.506	1.00 40.99	MOLD
ATOM	3970	CD1	TYR	3	38.906	30.096	28.142	1.00 47.12	MOLD
ATOM	3971	CE1	TYR	3	39.963	29.326	28.641	1.00 46.90	MOLD
ATOM	3972	CD2	TYR	3	40.470	31.744	27.376	1.00 39.67	MOLD
ATOM	3973	CE2	TYR	3	41.528	30.986	27.875	1.00 33.07	MOLD
ATOM	3974	CZ	TYR	3	41.270	29.789	28.497	1.00 38.18	MOLD
ATOM	3975	OH	TYR	3	42.316	29.041	28.961	1.00 45.26	MOLD
ATOM	3976	C	TYR	3	36.032	32.552	25.589	1.00 52.32	MOLD
ATOM	3977	O	TYR	3	36.170	33.550	24.867	1.00 45.81	MOLD
ATOM	3978	N	HIS	4	34.893	32.234	26.201	1.00 56.33	MOLD
ATOM	3979	CA	HIS	4	33.661	33.007	26.027	1.00 61.76	MOLD
ATOM	3980	CB	HIS	4	32.813	32.359	24.920	1.00 57.90	MOLD
ATOM	3981	CG	HIS	4	33.615	31.860	23.753	1.00 57.32	MOLD
ATOM	3982	CD2	HIS	4	34.136	30.639	23.490	1.00 54.55	MOLD
ATOM	3983	ND1	HIS	4	33.999	32.674	22.708	1.00 53.01	MOLD
ATOM	3984	CE1	HIS	4	34.721	31.974	21.852	1.00 54.45	MOLD
ATOM	3985	NE2	HIS	4	34.819	30.737	22.303	1.00 57.96	MOLD
ATOM	3986	C	HIS	4	32.852	33.042	27.340	1.00 63.82	MOLD
ATOM	3987	O	HIS	4	33.020	32.173	28.203	1.00 62.95	MOLD
ATOM	3988	N	TYR	5	31.977	34.037	27.492	1.00 64.27	MOLD
ATOM	3989	CA	TYR	5	31.155	34.141	28.703	1.00 67.19	MOLD
ATOM	3990	CB	TYR	5	31.828	35.031	29.753	1.00 60.35	MOLD
ATOM	3991	CG	TYR	5	32.043	36.454	29.300	1.00 54.11	MOLD
ATOM	3992	CD1	TYR	5	33.041	36.771	28.387	1.00 54.90	MOLD
ATOM	3993	CE1	TYR	5	33.233	38.087	27.950	1.00 54.06	MOLD
ATOM	3994	CD2	TYR	5	31.234	37.488	29.772	1.00 57.83	MOLD
ATOM	3995	CE2	TYR	5	31.414	38.808	29.340	1.00 52.18	MOLD
ATOM	3996	CZ	TYR	5	32.415	39.099	28.430	1.00 55.86	MOLD
ATOM	3997	OH	TYR	5	32.605	40.397	28.002	1.00 59.68	MOLD
ATOM	3998	C	TYR	5	29.767	34.698	28.408	1.00 71.18	MOLD
ATOM	3999	O	TYR	5	29.590	35.484	27.467	1.00 68.46	MOLD
ATOM	4000	N	SER	6	28.794	34.285	29.224	1.00 73.84	MOLD
ATOM	4001	CA	SER	6	27.401	34.726	29.096	1.00 76.74	MOLD
ATOM	4002	CB	SER	6	26.464	33.690	29.701	1.00 74.30	MOLD
ATOM	4003	OG	SER	6	26.665	33.616	31.101	1.00 82.23	MOLD
ATOM	4004	C	SER	6	27.218	36.037	29.851	1.00 78.02	MOLD
ATOM	4005	O	SER	6	27.605	36.130	31.015	1.00 79.39	MOLD
ATOM	4006	N	THR	7	26.624	37.039	29.200	1.00 79.13	MOLD
ATOM	4007	CA	THR	7	26.409	38.340	29.833	1.00 77.67	MOLD
ATOM	4008	CB	THR	7	26.091	39.435	28.791	1.00 76.64	MOLD
ATOM	4009	OG1	THR	7	25.204	38.906	27.800	1.00 78.02	MOLD
ATOM	4010	CG2	THR	7	27.362	39.924	28.126	1.00 78.03	MOLD
ATOM	4011	C	THR	7	25.311	38.356	30.893	1.00 76.78	MOLD
ATOM	4012	O	THR	7	24.992	39.419	31.421	1.00 78.07	MOLD
ATOM	4013	N	LYS	8	24.738	37.188	31.199	1.00 74.85	MOLD
ATOM	4014	CA	LYS	8	23.685	37.061	32.219	1.00 75.39	MOLD
ATOM	4015	CB	LYS	8	22.304	36.897	31.569	1.00 79.55	MOLD
ATOM	4016	CG	LYS	8	21.997	37.854	30.416	1.00 85.82	MOLD
ATOM	4017	CD	LYS	8	21.850	39.305	30.862	1.00 84.55	MOLD
ATOM	4018	CE	LYS	8	21.513	40.209	29.677	1.00 84.44	MOLD
ATOM	4019	NZ	LYS	8	22.563	40.141	28.620	1.00 80.51	MOLD
ATOM	4020	C	LYS	8	23.966	35.824	33.083	1.00 74.61	MOLD
ATOM	4021	O	LYS	8	24.497	34.830	32.590	1.00 75.60	MOLD
ATOM	4022	N	ALA	9	23.606	35.871	34.361	1.00 70.54	MOLD
ATOM	4023	CA	ALA	9	23.848	34.727	35.239	1.00 69.87	MOLD
ATOM	4024	CB	ALA	9	23.961	35.188	36.688	1.00 67.01	MOLD
ATOM	4025	C	ALA	9	22.733	33.700	35.110	1.00 71.38	MOLD

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ATOM	4026	O	ALA	9	21.590	34.058	34.852	1.00	76.51	MOLD
ATOM	4027	N	TYR	10	23.076	32.428	35.290	1.00	71.71	MOLD
ATOM	4028	CA	TYR	10	22.123	31.321	35.210	1.00	75.20	MOLD
ATOM	4029	CB	TYR	10	22.070	30.742	33.791	1.00	82.88	MOLD
ATOM	4030	CG	TYR	10	21.731	31.770	32.740	1.00	92.05	MOLD
ATOM	4031	CD1	TYR	10	20.528	32.478	32.798	1.00	97.11	MOLD
ATOM	4032	CE1	TYR	10	20.233	33.491	31.873	1.00	98.39	MOLD
ATOM	4033	CD2	TYR	10	22.633	32.088	31.724	1.00	93.95	MOLD
ATOM	4034	CE2	TYR	10	22.346	33.098	30.791	1.00	96.91	MOLD
ATOM	4035	CZ	TYR	10	21.145	33.797	30.878	1.00	96.88	MOLD
ATOM	4036	OH	TYR	10	20.862	34.817	29.996	1.00	96.08	MOLD
ATOM	4037	C	TYR	10	22.634	30.260	36.160	1.00	74.01	MOLD
ATOM	4038	O	TYR	10	23.756	30.363	36.653	1.00	78.08	MOLD
ATOM	4039	N	SER	11	21.829	29.241	36.426	1.00	73.16	MOLD
ATOM	4040	CA	SER	11	22.275	28.188	37.329	1.00	73.68	MOLD
ATOM	4041	CB	SER	11	21.158	27.164	37.572	1.00	68.43	MOLD
ATOM	4042	OG	SER	11	20.968	26.328	36.448	1.00	65.55	MOLD
ATOM	4043	C	SER	11	23.483	27.499	36.700	1.00	74.01	MOLD
ATOM	4044	O	SER	11	24.016	27.969	35.700	1.00	74.62	MOLD
ATOM	4045	N	TRP	12	23.914	26.387	37.285	1.00	75.85	MOLD
ATOM	4046	CA	TRP	12	25.048	25.655	36.744	1.00	75.55	MOLD
ATOM	4047	CB	TRP	12	25.642	24.721	37.791	1.00	73.02	MOLD
ATOM	4048	CG	TRP	12	26.955	24.143	37.358	1.00	70.84	MOLD
ATOM	4049	CD2	TRP	12	27.166	22.906	36.660	1.00	68.79	MOLD
ATOM	4050	CE2	TRP	12	28.557	22.781	36.446	1.00	68.82	MOLD
ATOM	4051	CE3	TRP	12	26.315	21.891	36.194	1.00	67.40	MOLD
ATOM	4052	CD1	TRP	12	28.187	24.701	37.529	1.00	68.26	MOLD
ATOM	4053	NE1	TRP	12	29.154	23.890	36.988	1.00	69.65	MOLD
ATOM	4054	CZ2	TRP	12	29.121	21.680	35.784	1.00	64.03	MOLD
ATOM	4055	CZ3	TRP	12	26.877	20.797	35.536	1.00	62.77	MOLD
ATOM	4056	CH2	TRP	12	28.270	20.703	35.339	1.00	63.29	MOLD
ATOM	4057	C	TRP	12	24.617	24.826	35.536	1.00	77.31	MOLD
ATOM	4058	O	TRP	12	25.338	24.753	34.541	1.00	78.92	MOLD
ATOM	4059	N	ASN	13	23.448	24.193	35.631	1.00	77.14	MOLD
ATOM	4060	CA	ASN	13	22.934	23.375	34.538	1.00	76.00	MOLD
ATOM	4061	CB	ASN	13	21.738	22.548	35.001	1.00	74.04	MOLD
ATOM	4062	CG	ASN	13	22.127	21.480	35.991	1.00	74.10	MOLD
ATOM	4063	OD1	ASN	13	23.138	20.800	35.821	1.00	72.88	MOLD
ATOM	4064	ND2	ASN	13	21.316	21.312	37.029	1.00	77.04	MOLD
ATOM	4065	C	ASN	13	22.538	24.216	33.330	1.00	76.52	MOLD
ATOM	4066	O	ASN	13	22.764	23.814	32.185	1.00	75.58	MOLD
ATOM	4067	N	ILE	14	21.938	25.376	33.578	1.00	75.90	MOLD
ATOM	4068	CA	ILE	14	21.549	26.254	32.478	1.00	77.73	MOLD
ATOM	4069	CB	ILE	14	20.648	27.433	32.957	1.00	76.59	MOLD
ATOM	4070	CG2	ILE	14	20.522	28.488	31.851	1.00	72.67	MOLD
ATOM	4071	CG1	ILE	14	19.262	26.899	33.354	1.00	80.04	MOLD
ATOM	4072	CD1	ILE	14	18.317	27.951	33.971	1.00	77.38	MOLD
ATOM	4073	C	ILE	14	22.840	26.806	31.882	1.00	77.61	MOLD
ATOM	4074	O	ILE	14	22.959	26.978	30.665	1.00	78.42	MOLD
ATOM	4075	N	SER	15	23.814	27.065	32.750	1.00	75.90	MOLD
ATOM	4076	CA	SER	15	25.094	27.587	32.302	1.00	73.98	MOLD
ATOM	4077	CB	SER	15	25.981	27.953	33.501	1.00	76.01	MOLD
ATOM	4078	OG	SER	15	25.545	29.152	34.122	1.00	68.50	MOLD
ATOM	4079	C	SER	15	25.813	26.580	31.407	1.00	71.91	MOLD
ATOM	4080	O	SER	15	26.479	26.974	30.451	1.00	70.67	MOLD
ATOM	4081	N	ARG	16	25.673	25.288	31.703	1.00	67.74	MOLD
ATOM	4082	CA	ARG	16	26.327	24.271	30.890	1.00	65.98	MOLD
ATOM	4083	CB	ARG	16	26.364	22.907	31.594	1.00	62.49	MOLD
ATOM	4084	CG	ARG	16	27.178	21.902	30.782	1.00	60.13	MOLD
ATOM	4085	CD	ARG	16	27.379	20.552	31.429	1.00	53.56	MOLD
ATOM	4086	NE	ARG	16	28.447	19.846	30.727	1.00	51.46	MOLD
ATOM	4087	CZ	ARG	16	28.771	18.571	30.921	1.00	54.70	MOLD
ATOM	4088	NH1	ARG	16	28.100	17.841	31.805	1.00	54.57	MOLD
ATOM	4089	NH2	ARG	16	29.774	18.027	30.235	1.00	49.63	MOLD
ATOM	4090	C	ARG	16	25.642	24.109	29.542	1.00	69.90	MOLD
ATOM	4091	O	ARG	16	26.293	24.193	28.501	1.00	69.13	MOLD

ATOM	4092	N	LYS	17	24.332	23.865	29.558	1.00	72.48	MOLD
ATOM	4093	CA	LYS	17	23.588	23.701	28.312	1.00	71.16	MOLD
ATOM	4094	CB	LYS	17	22.077	23.542	28.612	1.00	73.88	MOLD
ATOM	4095	CG	LYS	17	21.139	23.214	27.405	1.00	73.64	MOLD
ATOM	4096	CD	LYS	17	21.128	21.693	26.906	1.00	72.74	MOLD
ATOM	4097	CE	LYS	17	20.717	20.714	28.053	1.00	73.62	MOLD
ATOM	4098	NZ	LYS	17	20.420	19.264	27.540	1.00	72.28	MOLD
ATOM	4099	C	LYS	17	23.893	24.948	27.459	1.00	68.51	MOLD
ATOM	4100	O	LYS	17	24.066	24.844	26.244	1.00	67.28	MOLD
ATOM	4101	N	TYR	18	24.016	26.112	28.098	1.00	64.92	MOLD
ATOM	4102	CA	TYR	18	24.333	27.348	27.370	1.00	66.52	MOLD
ATOM	4103	CB	TYR	18	24.424	28.540	28.333	1.00	64.83	MOLD
ATOM	4104	CG	TYR	18	24.923	29.836	27.701	1.00	66.18	MOLD
ATOM	4105	CD1	TYR	18	26.257	29.988	27.319	1.00	65.44	MOLD
ATOM	4106	CE1	TYR	18	26.722	31.193	26.763	1.00	63.46	MOLD
ATOM	4107	CD2	TYR	18	24.061	30.922	27.509	1.00	62.44	MOLD
ATOM	4108	CE2	TYR	18	24.516	32.126	26.956	1.00	56.15	MOLD
ATOM	4109	CZ	TYR	18	25.844	32.257	26.587	1.00	58.05	MOLD
ATOM	4110	OH	TYR	18	26.297	33.441	26.050	1.00	52.65	MOLD
ATOM	4111	C	TYR	18	25.641	27.236	26.579	1.00	68.53	MOLD
ATOM	4112	O	TYR	18	25.651	27.445	25.363	1.00	71.71	MOLD
ATOM	4113	N	CYS	19	26.745	26.938	27.265	1.00	66.86	MOLD
ATOM	4114	CA	CYS	19	28.044	26.793	26.593	1.00	65.34	MOLD
ATOM	4115	C	CYS	19	27.940	25.697	25.530	1.00	62.88	MOLD
ATOM	4116	O	CYS	19	28.262	25.912	24.360	1.00	58.06	MOLD
ATOM	4117	CB	CYS	19	29.152	26.350	27.561	1.00	67.09	MOLD
ATOM	4118	SG	CYS	19	29.766	27.470	28.858	1.00	63.99	MOLD
ATOM	4119	N	GLN	20	27.509	24.517	25.978	1.00	57.08	MOLD
ATOM	4120	CA	GLN	20	27.361	23.346	25.129	1.00	60.26	MOLD
ATOM	4121	CB	GLN	20	26.543	22.272	25.849	1.00	58.30	MOLD
ATOM	4122	CG	GLN	20	27.171	21.798	27.147	1.00	63.73	MOLD
ATOM	4123	CD	GLN	20	26.695	20.418	27.583	1.00	64.46	MOLD
ATOM	4124	OE1	GLN	20	25.534	20.226	27.967	1.00	65.80	MOLD
ATOM	4125	NE2	GLN	20	27.600	19.446	27.522	1.00	63.83	MOLD
ATOM	4126	C	GLN	20	26.707	23.660	23.797	1.00	62.12	MOLD
ATOM	4127	O	GLN	20	27.053	23.075	22.771	1.00	65.02	MOLD
ATOM	4128	N	ASN	21	25.767	24.592	23.806	1.00	61.65	MOLD
ATOM	4129	CA	ASN	21	25.071	24.943	22.577	1.00	65.95	MOLD
ATOM	4130	CB	ASN	21	23.642	25.390	22.935	1.00	68.17	MOLD
ATOM	4131	CG	ASN	21	22.821	24.268	23.594	1.00	66.47	MOLD
ATOM	4132	OD1	ASN	21	21.806	24.524	24.259	1.00	68.34	MOLD
ATOM	4133	ND2	ASN	21	23.253	23.023	23.401	1.00	60.78	MOLD
ATOM	4134	C	ASN	21	25.779	25.985	21.682	1.00	64.90	MOLD
ATOM	4135	O	ASN	21	25.825	25.833	20.465	1.00	65.54	MOLD
ATOM	4136	N	ARG	22	26.355	27.020	22.275	1.00	64.87	MOLD
ATOM	4137	CA	ARG	22	27.022	28.058	21.493	1.00	67.49	MOLD
ATOM	4138	CB	ARG	22	26.796	29.410	22.173	1.00	68.57	MOLD
ATOM	4139	CG	ARG	22	25.376	29.555	22.737	1.00	72.73	MOLD
ATOM	4140	CD	ARG	22	25.340	30.486	23.933	1.00	70.38	MOLD
ATOM	4141	NE	ARG	22	25.380	31.890	23.535	1.00	76.36	MOLD
ATOM	4142	CZ	ARG	22	24.308	32.581	23.153	1.00	79.58	MOLD
ATOM	4143	NH1	ARG	22	23.117	31.992	23.127	1.00	85.11	MOLD
ATOM	4144	NH2	ARG	22	24.419	33.855	22.791	1.00	77.84	MOLD
ATOM	4145	C	ARG	22	28.525	27.820	21.284	1.00	69.20	MOLD
ATOM	4146	O	ARG	22	29.151	28.468	20.438	1.00	69.48	MOLD
ATOM	4147	N	TYR	23	29.098	26.889	22.049	1.00	68.10	MOLD
ATOM	4148	CA	TYR	23	30.529	26.566	21.969	1.00	59.27	MOLD
ATOM	4149	CB	TYR	23	31.289	27.401	22.990	1.00	55.37	MOLD
ATOM	4150	CG	TYR	23	30.921	28.860	22.939	1.00	54.79	MOLD
ATOM	4151	CD1	TYR	23	31.416	29.684	21.932	1.00	57.59	MOLD
ATOM	4152	CE1	TYR	23	31.075	31.033	21.871	1.00	53.16	MOLD
ATOM	4153	CD2	TYR	23	30.067	29.418	23.893	1.00	53.87	MOLD
ATOM	4154	CE2	TYR	23	29.720	30.767	23.842	1.00	50.20	MOLD
ATOM	4155	CZ	TYR	23	30.229	31.563	22.829	1.00	53.88	MOLD
ATOM	4156	OH	TYR	23	29.910	32.892	22.768	1.00	55.80	MOLD
ATOM	4157	C	TYR	23	30.750	25.075	22.246	1.00	55.52	MOLD

ATOM	4158	O	TYR	23	29.961	24.242	21.795	1.00	55.07	MOLD
ATOM	4159	N	THR	24	31.815	24.731	22.971	1.00	53.07	MOLD
ATOM	4160	CA	THR	24	32.068	23.326	23.292	1.00	52.69	MOLD
ATOM	4161	CB	THR	24	33.566	23.000	23.353	1.00	56.22	MOLD
ATOM	4162	OG1	THR	24	34.219	23.487	22.172	1.00	50.33	MOLD
ATOM	4163	CG2	THR	24	33.764	21.479	23.451	1.00	54.59	MOLD
ATOM	4164	C	THR	24	31.449	22.933	24.638	1.00	55.59	MOLD
ATOM	4165	O	THR	24	30.570	22.069	24.690	1.00	52.27	MOLD
ATOM	4166	N	ASP	25	31.907	23.569	25.719	1.00	56.26	MOLD
ATOM	4167	CA	ASP	25	31.394	23.277	27.061	1.00	58.00	MOLD
ATOM	4168	CB	ASP	25	31.912	21.903	27.520	1.00	55.81	MOLD
ATOM	4169	CG	ASP	25	30.944	21.188	28.458	1.00	56.60	MOLD
ATOM	4170	OD1	ASP	25	30.583	21.753	29.510	1.00	58.17	MOLD
ATOM	4171	OD2	ASP	25	30.546	20.052	28.145	1.00	56.50	MOLD
ATOM	4172	C	ASP	25	31.811	24.356	28.074	1.00	60.25	MOLD
ATOM	4173	O	ASP	25	32.200	25.469	27.695	1.00	64.43	MOLD
ATOM	4174	N	LEU	26	31.692	24.035	29.364	1.00	60.67	MOLD
ATOM	4175	CA	LEU	26	32.094	24.954	30.428	1.00	57.88	MOLD
ATOM	4176	CB	LEU	26	31.403	24.591	31.752	1.00	59.59	MOLD
ATOM	4177	CG	LEU	26	30.002	25.163	32.008	1.00	58.19	MOLD
ATOM	4178	CD1	LEU	26	29.401	24.539	33.257	1.00	61.89	MOLD
ATOM	4179	CD2	LEU	26	30.086	26.666	32.152	1.00	50.53	MOLD
ATOM	4180	C	LEU	26	33.607	24.796	30.554	1.00	54.37	MOLD
ATOM	4181	O	LEU	26	34.112	23.675	30.496	1.00	51.31	MOLD
ATOM	4182	N	VAL	27	34.318	25.911	30.727	1.00	54.04	MOLD
ATOM	4183	CA	VAL	27	35.784	25.903	30.807	1.00	55.59	MOLD
ATOM	4184	CB	VAL	27	36.353	27.252	31.276	1.00	55.45	MOLD
ATOM	4185	CG1	VAL	27	36.030	28.336	30.271	1.00	56.85	MOLD
ATOM	4186	CG2	VAL	27	35.801	27.593	32.636	1.00	59.74	MOLD
ATOM	4187	C	VAL	27	36.460	24.851	31.663	1.00	55.46	MOLD
ATOM	4188	O	VAL	27	36.025	24.538	32.779	1.00	56.54	MOLD
ATOM	4189	N	ALA	28	37.528	24.296	31.104	1.00	53.16	MOLD
ATOM	4190	CA	ALA	28	38.353	23.321	31.803	1.00	53.47	MOLD
ATOM	4191	CB	ALA	28	38.652	22.102	30.914	1.00	43.00	MOLD
ATOM	4192	C	ALA	28	39.620	24.131	32.036	1.00	51.97	MOLD
ATOM	4193	O	ALA	28	39.943	25.013	31.230	1.00	48.33	MOLD
ATOM	4194	N	ILE	29	40.317	23.878	33.142	1.00	51.78	MOLD
ATOM	4195	CA	ILE	29	41.541	24.619	33.406	1.00	49.87	MOLD
ATOM	4196	CB	ILE	29	41.420	25.476	34.685	1.00	47.64	MOLD
ATOM	4197	CG2	ILE	29	42.736	26.207	34.957	1.00	48.10	MOLD
ATOM	4198	CG1	ILE	29	40.293	26.504	34.480	1.00	47.43	MOLD
ATOM	4199	CD1	ILE	29	40.091	27.501	35.609	1.00	40.34	MOLD
ATOM	4200	C	ILE	29	42.696	23.648	33.477	1.00	50.11	MOLD
ATOM	4201	O	ILE	29	42.548	22.523	33.963	1.00	48.88	MOLD
ATOM	4202	N	GLN	30	43.840	24.073	32.949	1.00	51.21	MOLD
ATOM	4203	CA	GLN	30	45.006	23.203	32.917	1.00	50.02	MOLD
ATOM	4204	CB	GLN	30	45.443	22.930	31.469	1.00	47.10	MOLD
ATOM	4205	CG	GLN	30	44.316	22.829	30.452	1.00	50.23	MOLD
ATOM	4206	CD	GLN	30	44.828	22.470	29.055	1.00	48.57	MOLD
ATOM	4207	OE1	GLN	30	44.953	21.291	28.706	1.00	42.23	MOLD
ATOM	4208	NE2	GLN	30	45.147	23.491	28.265	1.00	33.98	MOLD
ATOM	4209	C	GLN	30	46.196	23.752	33.680	1.00	44.00	MOLD
ATOM	4210	O	GLN	30	46.983	22.983	34.219	1.00	39.59	MOLD
ATOM	4211	N	ASN	31	46.351	25.070	33.705	1.00	39.55	MOLD
ATOM	4212	CA	ASN	31	47.487	25.647	34.415	1.00	41.79	MOLD
ATOM	4213	CB	ASN	31	48.733	25.662	33.523	1.00	35.65	MOLD
ATOM	4214	CG	ASN	31	48.501	26.383	32.199	1.00	47.08	MOLD
ATOM	4215	OD1	ASN	31	48.179	27.584	32.166	1.00	41.73	MOLD
ATOM	4216	ND2	ASN	31	48.669	25.652	31.094	1.00	40.05	MOLD
ATOM	4217	C	ASN	31	47.208	27.041	34.937	1.00	45.19	MOLD
ATOM	4218	O	ASN	31	46.193	27.655	34.609	1.00	43.36	MOLD
ATOM	4219	N	LYS	32	48.124	27.546	35.748	1.00	48.43	MOLD
ATOM	4220	CA	LYS	32	47.946	28.858	36.339	1.00	50.72	MOLD
ATOM	4221	CB	LYS	32	48.992	29.070	37.432	1.00	51.18	MOLD
ATOM	4222	CG	LYS	32	48.968	28.025	38.569	1.00	58.16	MOLD
ATOM	4223	CD	LYS	32	47.704	28.132	39.435	1.00	62.44	MOLD

ATOM	4224	CE	LYS	32	47.878	27.503	40.833	1.00	60.50	MOLD
ATOM	4225	NZ	LYS	32	48.169	26.032	40.824	1.00	60.06	MOLD
ATOM	4226	C	LYS	32	48.011	29.995	35.316	1.00	53.41	MOLD
ATOM	4227	O	LYS	32	47.499	31.091	35.570	1.00	54.16	MOLD
ATOM	4228	N	ASN	33	48.631	29.746	34.165	1.00	49.61	MOLD
ATOM	4229	CA	ASN	33	48.734	30.793	33.157	1.00	46.09	MOLD
ATOM	4230	CB	ASN	33	49.600	30.339	31.965	1.00	48.82	MOLD
ATOM	4231	CG	ASN	33	51.086	30.313	32.287	1.00	47.54	MOLD
ATOM	4232	OD1	ASN	33	51.571	31.090	33.105	1.00	52.14	MOLD
ATOM	4233	ND2	ASN	33	51.823	29.429	31.618	1.00	52.25	MOLD
ATOM	4234	C	ASN	33	47.347	31.195	32.661	1.00	43.56	MOLD
ATOM	4235	O	ASN	33	47.073	32.384	32.452	1.00	39.88	MOLD
ATOM	4236	N	GLU	34	46.493	30.189	32.486	1.00	40.69	MOLD
ATOM	4237	CA	GLU	34	45.127	30.361	32.019	1.00	43.00	MOLD
ATOM	4238	CB	GLU	34	44.501	28.966	31.780	1.00	40.42	MOLD
ATOM	4239	CG	GLU	34	45.090	28.253	30.551	1.00	42.63	MOLD
ATOM	4240	CD	GLU	34	44.769	26.760	30.464	1.00	46.89	MOLD
ATOM	4241	OE1	GLU	34	43.812	26.285	31.114	1.00	42.30	MOLD
ATOM	4242	OE2	GLU	34	45.484	26.053	29.719	1.00	51.49	MOLD
ATOM	4243	C	GLU	34	44.322	31.177	33.036	1.00	45.28	MOLD
ATOM	4244	O	GLU	34	43.570	32.080	32.686	1.00	46.95	MOLD
ATOM	4245	N	ILE	35	44.504	30.869	34.308	1.00	46.66	MOLD
ATOM	4246	CA	ILE	35	43.805	31.580	35.357	1.00	44.92	MOLD
ATOM	4247	CB	ILE	35	44.115	30.919	36.699	1.00	46.03	MOLD
ATOM	4248	CG2	ILE	35	43.471	31.679	37.828	1.00	48.30	MOLD
ATOM	4249	CG1	ILE	35	43.628	29.469	36.645	1.00	45.19	MOLD
ATOM	4250	CD1	ILE	35	43.901	28.674	37.871	1.00	54.36	MOLD
ATOM	4251	C	ILE	35	44.250	33.034	35.333	1.00	48.10	MOLD
ATOM	4252	O	ILE	35	43.432	33.960	35.302	1.00	45.80	MOLD
ATOM	4253	N	ASP	36	45.561	33.230	35.314	1.00	49.01	MOLD
ATOM	4254	CA	ASP	36	46.116	34.564	35.282	1.00	48.25	MOLD
ATOM	4255	CB	ASP	36	47.632	34.495	35.103	1.00	49.06	MOLD
ATOM	4256	CG	ASP	36	48.266	35.857	34.954	1.00	48.40	MOLD
ATOM	4257	OD1	ASP	36	48.304	36.387	33.823	1.00	52.73	MOLD
ATOM	4258	OD2	ASP	36	48.720	36.404	35.976	1.00	54.50	MOLD
ATOM	4259	C	ASP	36	45.480	35.272	34.109	1.00	54.01	MOLD
ATOM	4260	O	ASP	36	45.040	36.418	34.218	1.00	56.58	MOLD
ATOM	4261	N	TYR	37	45.417	34.563	32.987	1.00	54.37	MOLD
ATOM	4262	CA	TYR	37	44.842	35.107	31.760	1.00	56.29	MOLD
ATOM	4263	CB	TYR	37	44.975	34.092	30.623	1.00	55.50	MOLD
ATOM	4264	CG	TYR	37	44.417	34.612	29.332	1.00	51.57	MOLD
ATOM	4265	CD1	TYR	37	45.121	35.537	28.573	1.00	48.48	MOLD
ATOM	4266	CE1	TYR	37	44.587	36.063	27.398	1.00	50.92	MOLD
ATOM	4267	CD2	TYR	37	43.158	34.214	28.892	1.00	54.28	MOLD
ATOM	4268	CE2	TYR	37	42.615	34.731	27.721	1.00	55.70	MOLD
ATOM	4269	CZ	TYR	37	43.334	35.655	26.978	1.00	52.11	MOLD
ATOM	4270	OH	TYR	37	42.787	36.158	25.814	1.00	53.22	MOLD
ATOM	4271	C	TYR	37	43.366	35.495	31.916	1.00	54.94	MOLD
ATOM	4272	O	TYR	37	42.989	36.660	31.736	1.00	49.94	MOLD
ATOM	4273	N	LEU	38	42.539	34.504	32.231	1.00	49.65	MOLD
ATOM	4274	CA	LEU	38	41.119	34.725	32.418	1.00	50.00	MOLD
ATOM	4275	CB	LEU	38	40.472	33.455	32.961	1.00	47.03	MOLD
ATOM	4276	CG	LEU	38	40.395	32.302	31.964	1.00	45.44	MOLD
ATOM	4277	CD1	LEU	38	40.000	31.032	32.683	1.00	46.64	MOLD
ATOM	4278	CD2	LEU	38	39.393	32.641	30.863	1.00	43.64	MOLD
ATOM	4279	C	LEU	38	40.891	35.882	33.386	1.00	54.78	MOLD
ATOM	4280	O	LEU	38	40.138	36.813	33.104	1.00	52.86	MOLD
ATOM	4281	N	ASN	39	41.570	35.837	34.522	1.00	56.40	MOLD
ATOM	4282	CA	ASN	39	41.394	36.882	35.502	1.00	56.42	MOLD
ATOM	4283	CB	ASN	39	42.289	36.653	36.701	1.00	57.30	MOLD
ATOM	4284	CG	ASN	39	41.924	37.552	37.852	1.00	57.18	MOLD
ATOM	4285	OD1	ASN	39	40.959	37.294	38.566	1.00	54.94	MOLD
ATOM	4286	ND2	ASN	39	42.672	38.634	38.020	1.00	57.99	MOLD
ATOM	4287	C	ASN	39	41.641	38.289	34.982	1.00	59.47	MOLD
ATOM	4288	O	ASN	39	41.158	39.262	35.563	1.00	62.18	MOLD
ATOM	4289	N	LYS	40	42.392	38.431	33.902	1.00	59.00	MOLD

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ATOM	4290	CA	LYS	40	42.636	39.781	33.417	1.00	59.82	MOLD
ATOM	4291	CB	LYS	40	44.138	40.010	33.199	1.00	61.85	MOLD
ATOM	4292	CG	LYS	40	44.866	38.912	32.453	1.00	70.22	MOLD
ATOM	4293	CD	LYS	40	46.297	38.728	32.982	1.00	66.99	MOLD
ATOM	4294	CE	LYS	40	47.126	39.997	32.862	1.00	66.73	MOLD
ATOM	4295	NZ	LYS	40	48.554	39.754	33.210	1.00	62.32	MOLD
ATOM	4296	C	LYS	40	41.839	40.208	32.189	1.00	60.80	MOLD
ATOM	4297	O	LYS	40	41.617	41.400	31.993	1.00	56.15	MOLD
ATOM	4298	N	VAL	41	41.384	39.255	31.377	1.00	60.71	MOLD
ATOM	4299	CA	VAL	41	40.617	39.614	30.186	1.00	57.32	MOLD
ATOM	4300	CB	VAL	41	40.759	38.563	29.060	1.00	58.60	MOLD
ATOM	4301	CG1	VAL	41	42.205	38.503	28.583	1.00	60.10	MOLD
ATOM	4302	CG2	VAL	41	40.303	37.198	29.554	1.00	61.16	MOLD
ATOM	4303	C	VAL	41	39.154	39.758	30.526	1.00	56.67	MOLD
ATOM	4304	O	VAL	41	38.531	40.771	30.207	1.00	57.98	MOLD
ATOM	4305	N	LEU	42	38.616	38.733	31.177	1.00	57.87	MOLD
ATOM	4306	CA	LEU	42	37.221	38.703	31.583	1.00	64.78	MOLD
ATOM	4307	CB	LEU	42	36.939	37.434	32.386	1.00	61.72	MOLD
ATOM	4308	CG	LEU	42	37.031	36.092	31.656	1.00	62.78	MOLD
ATOM	4309	CD1	LEU	42	36.865	34.952	32.647	1.00	56.03	MOLD
ATOM	4310	CD2	LEU	42	35.945	36.015	30.593	1.00	66.11	MOLD
ATOM	4311	C	LEU	42	36.843	39.929	32.416	1.00	72.33	MOLD
ATOM	4312	O	LEU	42	37.631	40.434	33.220	1.00	75.33	MOLD
ATOM	4313	N	PRO	43	35.621	40.431	32.220	1.00	78.28	MOLD
ATOM	4314	CD	PRO	43	34.667	39.987	31.184	1.00	79.15	MOLD
ATOM	4315	CA	PRO	43	35.113	41.600	32.941	1.00	80.22	MOLD
ATOM	4316	CB	PRO	43	34.015	42.107	32.012	1.00	81.99	MOLD
ATOM	4317	CG	PRO	43	33.433	40.813	31.490	1.00	81.28	MOLD
ATOM	4318	C	PRO	43	34.592	41.219	34.336	1.00	80.55	MOLD
ATOM	4319	O	PRO	43	34.395	40.031	34.633	1.00	75.74	MOLD
ATOM	4320	N	TYR	44	34.360	42.228	35.178	1.00	81.63	MOLD
ATOM	4321	CA	TYR	44	33.889	41.994	36.544	1.00	81.88	MOLD
ATOM	4322	CB	TYR	44	34.451	43.068	37.486	1.00	85.30	MOLD
ATOM	4323	CG	TYR	44	34.004	42.859	38.916	1.00	91.11	MOLD
ATOM	4324	CD1	TYR	44	34.162	41.614	39.532	1.00	92.56	MOLD
ATOM	4325	CE1	TYR	44	33.690	41.379	40.820	1.00	91.91	MOLD
ATOM	4326	CD2	TYR	44	33.368	43.873	39.633	1.00	90.51	MOLD
ATOM	4327	CE2	TYR	44	32.891	43.646	40.929	1.00	91.43	MOLD
ATOM	4328	CZ	TYR	44	33.055	42.393	41.512	1.00	91.85	MOLD
ATOM	4329	OH	TYR	44	32.570	42.137	42.777	1.00	92.02	MOLD
ATOM	4330	C	TYR	44	32.373	41.873	36.779	1.00	78.77	MOLD
ATOM	4331	O	TYR	44	31.593	42.773	36.449	1.00	74.23	MOLD
ATOM	4332	N	TYR	45	31.980	40.748	37.371	1.00	76.86	MOLD
ATOM	4333	CA	TYR	45	30.585	40.475	37.700	1.00	78.64	MOLD
ATOM	4334	CB	TYR	45	30.005	39.372	36.811	1.00	78.80	MOLD
ATOM	4335	CG	TYR	45	29.739	39.793	35.385	1.00	79.24	MOLD
ATOM	4336	CD1	TYR	45	28.923	40.887	35.102	1.00	77.07	MOLD
ATOM	4337	CE1	TYR	45	28.668	41.272	33.789	1.00	78.28	MOLD
ATOM	4338	CD2	TYR	45	30.297	39.091	34.316	1.00	77.37	MOLD
ATOM	4339	CE2	TYR	45	30.051	39.466	32.998	1.00	77.37	MOLD
ATOM	4340	CZ	TYR	45	29.235	40.557	32.741	1.00	79.62	MOLD
ATOM	4341	OH	TYR	45	28.992	40.933	31.440	1.00	77.04	MOLD
ATOM	4342	C	TYR	45	30.523	40.018	39.146	1.00	78.77	MOLD
ATOM	4343	O	TYR	45	31.090	38.988	39.504	1.00	78.78	MOLD
ATOM	4344	N	SER	46	29.825	40.789	39.970	1.00	77.97	MOLD
ATOM	4345	CA	SER	46	29.685	40.492	41.388	1.00	76.85	MOLD
ATOM	4346	CB	SER	46	28.765	41.528	42.026	1.00	79.23	MOLD
ATOM	4347	OG	SER	46	27.584	41.675	41.259	1.00	86.36	MOLD
ATOM	4348	C	SER	46	29.179	39.082	41.700	1.00	76.45	MOLD
ATOM	4349	O	SER	46	29.394	38.574	42.804	1.00	77.74	MOLD
ATOM	4350	N	SER	47	28.507	38.451	40.740	1.00	74.15	MOLD
ATOM	4351	CA	SER	47	27.988	37.095	40.933	1.00	69.18	MOLD
ATOM	4352	CB	SER	47	26.772	36.870	40.037	1.00	68.26	MOLD
ATOM	4353	OG	SER	47	25.841	37.926	40.193	1.00	65.69	MOLD
ATOM	4354	C	SER	47	29.076	36.078	40.595	1.00	69.92	MOLD
ATOM	4355	O	SER	47	29.037	34.933	41.056	1.00	64.34	MOLD

ATOM	4356	N	TYR	48	30.045	36.531	39.796	1.00	71.76	MOLD
ATOM	4357	CA	TYR	48	31.193	35.740	39.344	1.00	76.23	MOLD
ATOM	4358	CB	TYR	48	31.863	35.039	40.542	1.00	82.58	MOLD
ATOM	4359	CG	TYR	48	32.526	36.021	41.505	1.00	89.83	MOLD
ATOM	4360	CD1	TYR	48	33.511	36.913	41.057	1.00	91.96	MOLD
ATOM	4361	CE1	TYR	48	34.081	37.865	41.917	1.00	91.46	MOLD
ATOM	4362	CD2	TYR	48	32.131	36.101	42.848	1.00	91.03	MOLD
ATOM	4363	CE2	TYR	48	32.696	37.052	43.717	1.00	89.12	MOLD
ATOM	4364	CZ	TYR	48	33.665	37.932	43.243	1.00	90.87	MOLD
ATOM	4365	OH	TYR	48	34.192	38.898	44.076	1.00	86.83	MOLD
ATOM	4366	C	TYR	48	30.836	34.744	38.232	1.00	74.46	MOLD
ATOM	4367	O	TYR	48	29.718	34.774	37.713	1.00	74.53	MOLD
ATOM	4368	N	TYR	49	31.781	33.878	37.859	1.00	69.58	MOLD
ATOM	4369	CA	TYR	49	31.548	32.909	36.783	1.00	62.40	MOLD
ATOM	4370	CB	TYR	49	32.576	33.115	35.645	1.00	55.43	MOLD
ATOM	4371	CG	TYR	49	32.706	34.518	35.023	1.00	41.88	MOLD
ATOM	4372	CD1	TYR	49	33.278	35.574	35.728	1.00	43.57	MOLD
ATOM	4373	CE1	TYR	49	33.514	36.833	35.116	1.00	43.20	MOLD
ATOM	4374	CD2	TYR	49	32.355	34.749	33.685	1.00	45.42	MOLD
ATOM	4375	CE2	TYR	49	32.583	35.994	33.064	1.00	39.34	MOLD
ATOM	4376	CZ	TYR	49	33.164	37.026	33.783	1.00	47.69	MOLD
ATOM	4377	OH	TYR	49	33.434	38.232	33.165	1.00	44.62	MOLD
ATOM	4378	C	TYR	49	31.613	31.439	37.246	1.00	62.58	MOLD
ATOM	4379	O	TYR	49	32.182	31.143	38.297	1.00	61.46	MOLD
ATOM	4380	N	TRP	50	31.018	30.535	36.457	1.00	65.76	MOLD
ATOM	4381	CA	TRP	50	31.027	29.081	36.725	1.00	70.30	MOLD
ATOM	4382	CB	TRP	50	29.675	28.425	36.379	1.00	78.24	MOLD
ATOM	4383	CG	TRP	50	28.563	28.564	37.404	1.00	89.75	MOLD
ATOM	4384	CD2	TRP	50	28.477	27.909	38.679	1.00	91.28	MOLD
ATOM	4385	CE2	TRP	50	27.244	28.286	39.263	1.00	93.97	MOLD
ATOM	4386	CE3	TRP	50	29.322	27.040	39.386	1.00	92.68	MOLD
ATOM	4387	CD1	TRP	50	27.409	29.295	37.275	1.00	91.28	MOLD
ATOM	4388	NE1	TRP	50	26.614	29.131	38.386	1.00	92.81	MOLD
ATOM	4389	CZ2	TRP	50	26.836	27.821	40.520	1.00	93.84	MOLD
ATOM	4390	CZ3	TRP	50	28.915	26.578	40.636	1.00	93.66	MOLD
ATOM	4391	CH2	TRP	50	27.682	26.971	41.188	1.00	94.92	MOLD
ATOM	4392	C	TRP	50	32.101	28.423	35.838	1.00	69.09	MOLD
ATOM	4393	O	TRP	50	32.530	29.014	34.844	1.00	66.60	MOLD
ATOM	4394	N	ILE	51	32.525	27.206	36.189	1.00	64.15	MOLD
ATOM	4395	CA	ILE	51	33.535	26.503	35.409	1.00	59.15	MOLD
ATOM	4396	CB	ILE	51	34.964	26.627	36.034	1.00	62.10	MOLD
ATOM	4397	CG2	ILE	51	35.330	28.098	36.253	1.00	55.69	MOLD
ATOM	4398	CG1	ILE	51	35.042	25.866	37.352	1.00	57.64	MOLD
ATOM	4399	CD1	ILE	51	36.413	25.925	37.983	1.00	60.16	MOLD
ATOM	4400	C	ILE	51	33.189	25.029	35.259	1.00	62.38	MOLD
ATOM	4401	O	ILE	51	32.673	24.400	36.181	1.00	60.47	MOLD
ATOM	4402	N	GLY	52	33.498	24.486	34.084	1.00	62.81	MOLD
ATOM	4403	CA	GLY	52	33.196	23.102	33.778	1.00	59.07	MOLD
ATOM	4404	C	GLY	52	33.807	22.001	34.614	1.00	62.81	MOLD
ATOM	4405	O	GLY	52	34.192	20.955	34.074	1.00	65.05	MOLD
ATOM	4406	N	ILE	53	33.896	22.198	35.923	1.00	63.04	MOLD
ATOM	4407	CA	ILE	53	34.459	21.152	36.770	1.00	66.39	MOLD
ATOM	4408	CB	ILE	53	35.721	21.644	37.520	1.00	61.38	MOLD
ATOM	4409	CG2	ILE	53	35.339	22.709	38.533	1.00	58.96	MOLD
ATOM	4410	CG1	ILE	53	36.411	20.453	38.196	1.00	58.50	MOLD
ATOM	4411	CD1	ILE	53	37.883	20.674	38.497	1.00	62.78	MOLD
ATOM	4412	C	ILE	53	33.456	20.624	37.792	1.00	69.92	MOLD
ATOM	4413	O	ILE	53	32.691	21.393	38.378	1.00	70.85	MOLD
ATOM	4414	N	ARG	54	33.459	19.308	37.991	1.00	72.11	MOLD
ATOM	4415	CA	ARG	54	32.568	18.675	38.954	1.00	76.31	MOLD
ATOM	4416	CB	ARG	54	31.357	18.063	38.256	1.00	74.88	MOLD
ATOM	4417	CG	ARG	54	30.453	19.091	37.627	1.00	76.25	MOLD
ATOM	4418	CD	ARG	54	29.993	20.130	38.641	1.00	76.83	MOLD
ATOM	4419	NE	ARG	54	29.038	19.598	39.611	1.00	86.01	MOLD
ATOM	4420	CZ	ARG	54	27.831	19.124	39.302	1.00	90.62	MOLD
ATOM	4421	NH1	ARG	54	27.421	19.105	38.041	1.00	92.21	MOLD

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ATOM	4422	NH2	ARG	54	27.019	18.683	40.257	1.00	91.37	MOLD
ATOM	4423	C	ARG	54	33.300	17.594	39.723	1.00	82.27	MOLD
ATOM	4424	O	ARG	54	34.350	17.122	39.294	1.00	83.92	MOLD
ATOM	4425	N	LYS	55	32.742	17.209	40.867	1.00	85.42	MOLD
ATOM	4426	CA	LYS	55	33.339	16.175	41.701	1.00	85.94	MOLD
ATOM	4427	CB	LYS	55	33.195	16.541	43.177	1.00	87.63	MOLD
ATOM	4428	CG	LYS	55	33.643	15.450	44.127	1.00	91.67	MOLD
ATOM	4429	CD	LYS	55	33.163	15.733	45.537	1.00	92.80	MOLD
ATOM	4430	CE	LYS	55	33.523	14.600	46.462	1.00	92.27	MOLD
ATOM	4431	NZ	LYS	55	34.990	14.410	46.448	1.00	96.40	MOLD
ATOM	4432	C	LYS	55	32.658	14.841	41.428	1.00	84.64	MOLD
ATOM	4433	O	LYS	55	31.432	14.736	41.456	1.00	82.88	MOLD
ATOM	4434	N	ASN	56	33.464	13.824	41.166	1.00	86.46	MOLD
ATOM	4435	CA	ASN	56	32.951	12.494	40.877	1.00	91.96	MOLD
ATOM	4436	CB	ASN	56	33.939	11.756	39.986	1.00	96.21	MOLD
ATOM	4437	CG	ASN	56	33.262	11.046	38.851	1.00	100.91	MOLD
ATOM	4438	OD1	ASN	56	32.369	10.220	39.062	1.00	101.41	MOLD
ATOM	4439	ND2	ASN	56	33.674	11.367	37.627	1.00	100.47	MOLD
ATOM	4440	C	ASN	56	32.730	11.699	42.164	1.00	95.26	MOLD
ATOM	4441	O	ASN	56	31.809	11.991	42.940	1.00	95.58	MOLD
ATOM	4442	N	ASN	57	33.562	10.677	42.369	1.00	94.47	MOLD
ATOM	4443	CA	ASN	57	33.490	9.865	43.579	1.00	92.06	MOLD
ATOM	4444	CB	ASN	57	34.280	8.554	43.393	1.00	89.08	MOLD
ATOM	4445	CG	ASN	57	33.839	7.447	44.369	1.00	81.55	MOLD
ATOM	4446	OD1	ASN	57	33.653	7.706	45.592	1.00	72.91	MOLD
ATOM	4447	ND2	ASN	57	33.680	6.193	43.850	1.00	76.12	MOLD
ATOM	4448	C	ASN	57	34.179	10.789	44.591	1.00	93.34	MOLD
ATOM	4449	O	ASN	57	33.526	11.428	45.419	1.00	93.47	MOLD
ATOM	4450	N	LYS	58	35.504	10.871	44.497	1.00	94.03	MOLD
ATOM	4451	CA	LYS	58	36.307	11.756	45.345	1.00	92.58	MOLD
ATOM	4452	CB	LYS	58	36.922	11.003	46.544	1.00	91.75	MOLD
ATOM	4453	CG	LYS	58	36.062	11.013	47.823	1.00	88.46	MOLD
ATOM	4454	CD	LYS	58	35.833	12.436	48.342	1.00	81.12	MOLD
ATOM	4455	CE	LYS	58	34.654	12.503	49.309	1.00	81.99	MOLD
ATOM	4456	NZ	LYS	58	34.333	13.898	49.750	1.00	78.55	MOLD
ATOM	4457	C	LYS	58	37.406	12.326	44.443	1.00	89.64	MOLD
ATOM	4458	O	LYS	58	38.490	12.693	44.902	1.00	88.80	MOLD
ATOM	4459	N	THR	59	37.096	12.391	43.149	1.00	86.81	MOLD
ATOM	4460	CA	THR	59	38.017	12.910	42.146	1.00	82.78	MOLD
ATOM	4461	CB	THR	59	38.450	11.821	41.155	1.00	80.65	MOLD
ATOM	4462	OG1	THR	59	38.538	10.559	41.824	1.00	81.91	MOLD
ATOM	4463	CG2	THR	59	39.802	12.167	40.565	1.00	81.82	MOLD
ATOM	4464	C	THR	59	37.341	14.010	41.334	1.00	81.54	MOLD
ATOM	4465	O	THR	59	36.392	13.747	40.592	1.00	76.28	MOLD
ATOM	4466	N	TRP	60	37.824	15.240	41.475	1.00	81.28	MOLD
ATOM	4467	CA	TRP	60	37.259	16.352	40.722	1.00	83.43	MOLD
ATOM	4468	CB	TRP	60	37.773	17.682	41.269	1.00	82.93	MOLD
ATOM	4469	CG	TRP	60	37.207	17.974	42.614	1.00	86.97	MOLD
ATOM	4470	CD2	TRP	60	36.157	18.901	42.921	1.00	87.25	MOLD
ATOM	4471	CE2	TRP	60	35.908	18.805	44.307	1.00	87.58	MOLD
ATOM	4472	CE3	TRP	60	35.401	19.805	42.160	1.00	86.55	MOLD
ATOM	4473	CD1	TRP	60	37.543	17.370	43.790	1.00	86.75	MOLD
ATOM	4474	NE1	TRP	60	36.767	17.863	44.812	1.00	89.67	MOLD
ATOM	4475	CZ2	TRP	60	34.932	19.578	44.950	1.00	85.59	MOLD
ATOM	4476	CZ3	TRP	60	34.429	20.575	42.800	1.00	82.00	MOLD
ATOM	4477	CH2	TRP	60	34.206	20.455	44.182	1.00	83.30	MOLD
ATOM	4478	C	TRP	60	37.613	16.201	39.244	1.00	82.92	MOLD
ATOM	4479	O	TRP	60	38.778	15.990	38.890	1.00	82.77	MOLD
ATOM	4480	N	THR	61	36.600	16.306	38.386	1.00	78.30	MOLD
ATOM	4481	CA	THR	61	36.801	16.139	36.952	1.00	73.31	MOLD
ATOM	4482	CB	THR	61	36.195	14.799	36.488	1.00	69.85	MOLD
ATOM	4483	OG1	THR	61	36.653	13.754	37.356	1.00	62.81	MOLD
ATOM	4484	CG2	THR	61	36.614	14.479	35.057	1.00	66.31	MOLD
ATOM	4485	C	THR	61	36.235	17.266	36.086	1.00	72.47	MOLD
ATOM	4486	O	THR	61	35.188	17.857	36.380	1.00	70.04	MOLD
ATOM	4487	N	TRP	62	36.964	17.577	35.021	1.00	70.47	MOLD

ATOM	4488	CA	TRP	62	36.525	18.601	34.087	1.00	67.53	MOLD
ATOM	4489	CB	TRP	62	37.716	19.142	33.300	1.00	63.65	MOLD
ATOM	4490	CG	TRP	62	38.732	19.839	34.154	1.00	58.83	MOLD
ATOM	4491	CD2	TRP	62	38.596	21.134	34.756	1.00	51.23	MOLD
ATOM	4492	CE2	TRP	62	39.813	21.418	35.414	1.00	48.02	MOLD
ATOM	4493	CE3	TRP	62	37.564	22.082	34.797	1.00	49.52	MOLD
ATOM	4494	CD1	TRP	62	39.996	19.397	34.471	1.00	49.36	MOLD
ATOM	4495	NE1	TRP	62	40.647	20.344	35.223	1.00	49.48	MOLD
ATOM	4496	CZ2	TRP	62	40.028	22.614	36.105	1.00	45.52	MOLD
ATOM	4497	CZ3	TRP	62	37.778	23.276	35.484	1.00	49.80	MOLD
ATOM	4498	CH2	TRP	62	39.005	23.529	36.128	1.00	50.65	MOLD
ATOM	4499	C	TRP	62	35.533	17.901	33.159	1.00	64.54	MOLD
ATOM	4500	O	TRP	62	35.848	16.852	32.570	1.00	54.63	MOLD
ATOM	4501	N	VAL	63	34.335	18.471	33.055	1.00	63.82	MOLD
ATOM	4502	CA	VAL	63	33.268	17.895	32.238	1.00	66.54	MOLD
ATOM	4503	CB	VAL	63	31.925	18.630	32.482	1.00	65.18	MOLD
ATOM	4504	CG1	VAL	63	31.430	18.333	33.883	1.00	64.00	MOLD
ATOM	4505	CG2	VAL	63	32.100	20.138	32.290	1.00	56.82	MOLD
ATOM	4506	C	VAL	63	33.553	17.888	30.740	1.00	69.78	MOLD
ATOM	4507	O	VAL	63	33.305	16.890	30.051	1.00	69.20	MOLD
ATOM	4508	N	GLY	64	34.081	19.004	30.246	1.00	69.41	MOLD
ATOM	4509	CA	GLY	64	34.377	19.121	28.834	1.00	66.43	MOLD
ATOM	4510	C	GLY	64	35.484	18.218	28.340	1.00	68.36	MOLD
ATOM	4511	O	GLY	64	35.446	17.779	27.193	1.00	67.48	MOLD
ATOM	4512	N	THR	65	36.470	17.924	29.184	1.00	68.56	MOLD
ATOM	4513	CA	THR	65	37.582	17.080	28.754	1.00	67.37	MOLD
ATOM	4514	CB	THR	65	38.926	17.792	28.983	1.00	67.11	MOLD
ATOM	4515	OG1	THR	65	39.201	17.849	30.386	1.00	66.57	MOLD
ATOM	4516	CG2	THR	65	38.873	19.214	28.430	1.00	67.03	MOLD
ATOM	4517	C	THR	65	37.649	15.694	29.404	1.00	67.61	MOLD
ATOM	4518	O	THR	65	38.395	14.830	28.934	1.00	62.24	MOLD
ATOM	4519	N	LYS	66	36.876	15.479	30.470	1.00	68.89	MOLD
ATOM	4520	CA	LYS	66	36.866	14.189	31.162	1.00	72.22	MOLD
ATOM	4521	CB	LYS	66	36.627	13.036	30.167	1.00	76.87	MOLD
ATOM	4522	CG	LYS	66	35.265	12.342	30.271	1.00	82.17	MOLD
ATOM	4523	CD	LYS	66	34.131	13.288	29.904	1.00	89.79	MOLD
ATOM	4524	CE	LYS	66	32.770	12.609	29.960	1.00	87.78	MOLD
ATOM	4525	NZ	LYS	66	31.699	13.570	29.565	1.00	91.28	MOLD
ATOM	4526	C	LYS	66	38.182	13.934	31.891	1.00	72.72	MOLD
ATOM	4527	O	LYS	66	38.479	12.792	32.245	1.00	70.55	MOLD
ATOM	4528	N	LYS	67	38.970	14.989	32.101	1.00	72.50	MOLD
ATOM	4529	CA	LYS	67	40.264	14.869	32.786	1.00	70.95	MOLD
ATOM	4530	CB	LYS	67	41.309	15.812	32.163	1.00	73.13	MOLD
ATOM	4531	CG	LYS	67	41.815	15.441	30.764	1.00	71.33	MOLD
ATOM	4532	CD	LYS	67	42.811	16.499	30.287	1.00	72.03	MOLD
ATOM	4533	CE	LYS	67	43.183	16.343	28.826	1.00	72.12	MOLD
ATOM	4534	NZ	LYS	67	43.838	15.040	28.550	1.00	73.31	MOLD
ATOM	4535	C	LYS	67	40.177	15.168	34.285	1.00	67.83	MOLD
ATOM	4536	O	LYS	67	39.362	15.985	34.727	1.00	61.97	MOLD
ATOM	4537	N	ALA	68	41.039	14.504	35.053	1.00	64.93	MOLD
ATOM	4538	CA	ALA	68	41.091	14.677	36.502	1.00	65.73	MOLD
ATOM	4539	CB	ALA	68	41.637	13.416	37.163	1.00	61.94	MOLD
ATOM	4540	C	ALA	68	41.962	15.874	36.869	1.00	65.60	MOLD
ATOM	4541	O	ALA	68	43.006	16.111	36.253	1.00	64.18	MOLD
ATOM	4542	N	LEU	69	41.514	16.618	37.878	1.00	65.87	MOLD
ATOM	4543	CA	LEU	69	42.207	17.802	38.358	1.00	64.81	MOLD
ATOM	4544	CB	LEU	69	41.541	18.325	39.634	1.00	60.99	MOLD
ATOM	4545	CG	LEU	69	42.029	19.689	40.139	1.00	59.48	MOLD
ATOM	4546	CD1	LEU	69	41.607	20.780	39.168	1.00	55.08	MOLD
ATOM	4547	CD2	LEU	69	41.443	19.974	41.504	1.00	59.60	MOLD
ATOM	4548	C	LEU	69	43.659	17.477	38.659	1.00	65.50	MOLD
ATOM	4549	O	LEU	69	43.967	16.404	39.183	1.00	67.98	MOLD
ATOM	4550	N	THR	70	44.550	18.399	38.314	1.00	60.72	MOLD
ATOM	4551	CA	THR	70	45.967	18.216	38.580	1.00	55.17	MOLD
ATOM	4552	CB	THR	70	46.804	18.368	37.329	1.00	55.12	MOLD
ATOM	4553	OG1	THR	70	46.605	19.688	36.803	1.00	61.57	MOLD

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ATOM   4554  CG2 THR    70      46.425  17.315  36.297  1.00 48.44      MOLD
ATOM   4555  C   THR    70      46.402  19.314  39.531  1.00 54.81      MOLD
ATOM   4556  O   THR    70      45.678  20.296  39.751  1.00 47.55      MOLD
ATOM   4557  N   ASN    71      47.590  19.151  40.094  1.00 54.51      MOLD
ATOM   4558  CA  ASN    71      48.108  20.154  41.006  1.00 55.58      MOLD
ATOM   4559  CB  ASN    71      49.378  19.633  41.709  1.00 59.27      MOLD
ATOM   4560  CG  ASN    71      49.101  18.426  42.637  1.00 61.12      MOLD
ATOM   4561  OD1 ASN    71      48.344  18.521  43.611  1.00 59.56      MOLD
ATOM   4562  ND2 ASN    71      49.728  17.296  42.333  1.00 64.18      MOLD
ATOM   4563  C   ASN    71      48.390  21.429  40.206  1.00 52.18      MOLD
ATOM   4564  O   ASN    71      48.275  22.532  40.730  1.00 51.80      MOLD
ATOM   4565  N   GLU    72      48.728  21.269  38.925  1.00 55.83      MOLD
ATOM   4566  CA  GLU    72      49.022  22.402  38.038  1.00 57.26      MOLD
ATOM   4567  CB  GLU    72      49.494  21.914  36.657  1.00 58.48      MOLD
ATOM   4568  CG  GLU    72      50.874  21.278  36.611  1.00 57.79      MOLD
ATOM   4569  CD  GLU    72      50.950  19.998  37.427  1.00 64.68      MOLD
ATOM   4570  OE1 GLU    72      49.949  19.248  37.432  1.00 61.97      MOLD
ATOM   4571  OE2 GLU    72      52.007  19.734  38.054  1.00 61.54      MOLD
ATOM   4572  C   GLU    72      47.831  23.346  37.838  1.00 55.90      MOLD
ATOM   4573  O   GLU    72      48.005  24.567  37.725  1.00 59.80      MOLD
ATOM   4574  N   ALA    73      46.624  22.793  37.788  1.00 57.41      MOLD
ATOM   4575  CA  ALA    73      45.434  23.623  37.588  1.00 57.69      MOLD
ATOM   4576  CB  ALA    73      44.457  22.916  36.630  1.00 54.02      MOLD
ATOM   4577  C   ALA    73      44.721  24.009  38.892  1.00 55.28      MOLD
ATOM   4578  O   ALA    73      44.202  25.124  39.000  1.00 52.32      MOLD
ATOM   4579  N   GLU    74      44.706  23.089  39.863  1.00 54.93      MOLD
ATOM   4580  CA  GLU    74      44.066  23.282  41.178  1.00 55.10      MOLD
ATOM   4581  CB  GLU    74      44.611  22.240  42.166  1.00 58.24      MOLD
ATOM   4582  CG  GLU    74      44.057  22.321  43.602  1.00 69.34      MOLD
ATOM   4583  CD  GLU    74      44.640  23.471  44.436  1.00 69.63      MOLD
ATOM   4584  OE1 GLU    74      45.884  23.531  44.599  1.00 75.97      MOLD
ATOM   4585  OE2 GLU    74      43.852  24.308  44.934  1.00 63.50      MOLD
ATOM   4586  C   GLU    74      44.272  24.680  41.756  1.00 51.70      MOLD
ATOM   4587  O   GLU    74      45.400  25.091  41.983  1.00 49.54      MOLD
ATOM   4588  N   ASN    75      43.189  25.406  42.014  1.00 54.26      MOLD
ATOM   4589  CA  ASN    75      43.325  26.758  42.555  1.00 59.21      MOLD
ATOM   4590  CB  ASN    75      43.373  27.775  41.413  1.00 57.00      MOLD
ATOM   4591  CG  ASN    75      44.077  29.051  41.814  1.00 52.86      MOLD
ATOM   4592  OD1 ASN    75      45.235  29.017  42.236  1.00 58.59      MOLD
ATOM   4593  ND2 ASN    75      43.391  30.180  41.687  1.00 50.08      MOLD
ATOM   4594  C   ASN    75      42.243  27.186  43.554  1.00 61.80      MOLD
ATOM   4595  O   ASN    75      41.730  28.320  43.493  1.00 55.85      MOLD
ATOM   4596  N   TRP    76      41.908  26.290  44.478  1.00 63.37      MOLD
ATOM   4597  CA  TRP    76      40.895  26.584  45.485  1.00 62.97      MOLD
ATOM   4598  CB  TRP    76      40.758  25.420  46.459  1.00 61.54      MOLD
ATOM   4599  CG  TRP    76      40.303  24.176  45.826  1.00 61.81      MOLD
ATOM   4600  CD2 TRP    76      39.018  23.944  45.261  1.00 60.04      MOLD
ATOM   4601  CE2 TRP    76      39.014  22.621  44.764  1.00 63.88      MOLD
ATOM   4602  CE3 TRP    76      37.864  24.726  45.124  1.00 59.90      MOLD
ATOM   4603  CD1 TRP    76      41.018  23.026  45.659  1.00 59.70      MOLD
ATOM   4604  NE1 TRP    76      40.250  22.083  45.020  1.00 64.17      MOLD
ATOM   4605  CZ2 TRP    76      37.897  22.059  44.137  1.00 65.71      MOLD
ATOM   4606  CZ3 TRP    76      36.756  24.171  44.502  1.00 65.97      MOLD
ATOM   4607  CH2 TRP    76      36.780  22.847  44.014  1.00 63.64      MOLD
ATOM   4608  C   TRP    76      41.253  27.814  46.293  1.00 64.21      MOLD
ATOM   4609  O   TRP    76      42.427  28.033  46.612  1.00 63.60      MOLD
ATOM   4610  N   ALA    77      40.244  28.615  46.627  1.00 65.12      MOLD
ATOM   4611  CA  ALA    77      40.468  29.789  47.460  1.00 68.53      MOLD
ATOM   4612  CB  ALA    77      39.249  30.695  47.443  1.00 65.98      MOLD
ATOM   4613  C   ALA    77      40.721  29.249  48.878  1.00 71.51      MOLD
ATOM   4614  O   ALA    77      40.480  28.062  49.148  1.00 67.20      MOLD
ATOM   4615  N   ASP    78      41.206  30.102  49.777  1.00 71.63      MOLD
ATOM   4616  CA  ASP    78      41.488  29.661  51.138  1.00 75.22      MOLD
ATOM   4617  CB  ASP    78      41.863  30.850  52.026  1.00 74.79      MOLD
ATOM   4618  CG  ASP    78      43.172  31.489  51.619  1.00 74.26      MOLD
ATOM   4619  OD1 ASP    78      44.043  30.766  51.090  1.00 71.89      MOLD
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ATOM	4620	OD2	ASP	78	43.335	32.707	51.841	1.00	71.27	MOLD
ATOM	4621	C	ASP	78	40.344	28.891	51.790	1.00	77.72	MOLD
ATOM	4622	O	ASP	78	39.231	29.414	51.935	1.00	77.48	MOLD
ATOM	4623	N	ASN	79	40.646	27.642	52.164	1.00	80.68	MOLD
ATOM	4624	CA	ASN	79	39.725	26.717	52.842	1.00	81.41	MOLD
ATOM	4625	CB	ASN	79	38.879	27.467	53.881	1.00	79.85	MOLD
ATOM	4626	CG	ASN	79	39.709	27.958	55.057	1.00	79.91	MOLD
ATOM	4627	OD1	ASN	79	39.665	29.135	55.412	1.00	71.14	MOLD
ATOM	4628	ND2	ASN	79	40.476	27.051	55.663	1.00	75.74	MOLD
ATOM	4629	C	ASN	79	38.815	25.846	51.984	1.00	83.06	MOLD
ATOM	4630	O	ASN	79	38.393	24.777	52.434	1.00	84.74	MOLD
ATOM	4631	N	GLU	80	38.510	26.285	50.764	1.00	81.98	MOLD
ATOM	4632	CA	GLU	80	37.643	25.516	49.863	1.00	77.66	MOLD
ATOM	4633	CB	GLU	80	37.270	26.368	48.651	1.00	76.24	MOLD
ATOM	4634	CG	GLU	80	37.088	27.856	48.951	1.00	70.40	MOLD
ATOM	4635	CD	GLU	80	35.856	28.148	49.779	1.00	71.64	MOLD
ATOM	4636	OE1	GLU	80	35.563	29.347	50.009	1.00	63.73	MOLD
ATOM	4637	OE2	GLU	80	35.184	27.179	50.196	1.00	70.26	MOLD
ATOM	4638	C	GLU	80	38.401	24.268	49.402	1.00	74.70	MOLD
ATOM	4639	O	GLU	80	39.629	24.263	49.390	1.00	75.19	MOLD
ATOM	4640	N	PRO	81	37.686	23.189	49.027	1.00	75.57	MOLD
ATOM	4641	CD	PRO	81	38.414	22.008	48.522	1.00	73.54	MOLD
ATOM	4642	CA	PRO	81	36.235	22.954	48.970	1.00	76.40	MOLD
ATOM	4643	CB	PRO	81	36.129	21.767	48.024	1.00	73.38	MOLD
ATOM	4644	CG	PRO	81	37.318	20.955	48.425	1.00	72.61	MOLD
ATOM	4645	C	PRO	81	35.651	22.635	50.354	1.00	76.93	MOLD
ATOM	4646	O	PRO	81	36.116	21.713	51.034	1.00	73.35	MOLD
ATOM	4647	N	ASN	82	34.615	23.371	50.749	1.00	77.91	MOLD
ATOM	4648	CA	ASN	82	34.010	23.185	52.067	1.00	81.39	MOLD
ATOM	4649	CB	ASN	82	34.026	24.524	52.814	1.00	75.93	MOLD
ATOM	4650	CG	ASN	82	33.244	25.604	52.090	1.00	73.07	MOLD
ATOM	4651	OD1	ASN	82	33.039	25.529	50.880	1.00	76.34	MOLD
ATOM	4652	ND2	ASN	82	32.820	26.621	52.825	1.00	67.63	MOLD
ATOM	4653	C	ASN	82	32.602	22.588	52.154	1.00	85.48	MOLD
ATOM	4654	O	ASN	82	32.005	22.604	53.231	1.00	89.50	MOLD
ATOM	4655	N	ASN	83	32.061	22.060	51.056	1.00	88.65	MOLD
ATOM	4656	CA	ASN	83	30.712	21.483	51.101	1.00	89.78	MOLD
ATOM	4657	CB	ASN	83	29.928	21.807	49.826	1.00	88.49	MOLD
ATOM	4658	CG	ASN	83	29.774	23.295	49.601	1.00	89.87	MOLD
ATOM	4659	OD1	ASN	83	29.560	24.063	50.540	1.00	90.80	MOLD
ATOM	4660	ND2	ASN	83	29.869	23.711	48.346	1.00	96.07	MOLD
ATOM	4661	C	ASN	83	30.736	19.976	51.306	1.00	92.12	MOLD
ATOM	4662	O	ASN	83	31.743	19.321	51.029	1.00	91.71	MOLD
ATOM	4663	N	LYS	84	29.614	19.436	51.786	1.00	93.61	MOLD
ATOM	4664	CA	LYS	84	29.480	18.003	52.059	1.00	93.56	MOLD
ATOM	4665	CB	LYS	84	29.625	17.759	53.566	1.00	96.64	MOLD
ATOM	4666	CG	LYS	84	29.332	16.330	54.012	1.00	99.43	MOLD
ATOM	4667	CD	LYS	84	30.438	15.363	53.607	1.00	100.19	MOLD
ATOM	4668	CE	LYS	84	31.683	15.568	54.463	1.00	99.28	MOLD
ATOM	4669	NZ	LYS	84	31.388	15.391	55.917	1.00	96.04	MOLD
ATOM	4670	C	LYS	84	28.139	17.427	51.574	1.00	92.82	MOLD
ATOM	4671	O	LYS	84	27.941	16.205	51.565	1.00	89.55	MOLD
ATOM	4672	N	ARG	85	27.237	18.314	51.159	1.00	92.37	MOLD
ATOM	4673	CA	ARG	85	25.899	17.937	50.691	1.00	92.84	MOLD
ATOM	4674	CB	ARG	85	24.925	19.070	51.010	1.00	94.75	MOLD
ATOM	4675	CG	ARG	85	23.696	18.683	51.803	1.00	95.10	MOLD
ATOM	4676	CD	ARG	85	23.107	19.911	52.484	1.00	95.13	MOLD
ATOM	4677	NE	ARG	85	23.839	20.260	53.700	1.00	99.07	MOLD
ATOM	4678	CZ	ARG	85	25.083	20.737	53.745	1.00	101.05	MOLD
ATOM	4679	NH1	ARG	85	25.638	21.007	54.918	1.00	101.19	MOLD
ATOM	4680	NH2	ARG	85	25.773	20.963	52.634	1.00	101.89	MOLD
ATOM	4681	C	ARG	85	25.807	17.624	49.194	1.00	91.89	MOLD
ATOM	4682	O	ARG	85	26.429	18.296	48.366	1.00	89.52	MOLD
ATOM	4683	N	ASN	86	25.010	16.615	48.850	1.00	88.89	MOLD
ATOM	4684	CA	ASN	86	24.826	16.244	47.452	1.00	87.14	MOLD
ATOM	4685	CB	ASN	86	23.782	15.122	47.331	1.00	87.49	MOLD

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ATOM	4686	CG	ASN	86	23.500	14.732	45.883	1.00	89.09	MOLD
ATOM	4687	OD1	ASN	86	24.366	14.199	45.183	1.00	83.87	MOLD
ATOM	4688	ND2	ASN	86	22.281	15.003	45.428	1.00	90.82	MOLD
ATOM	4689	C	ASN	86	24.361	17.480	46.674	1.00	85.32	MOLD
ATOM	4690	O	ASN	86	23.648	18.329	47.211	1.00	79.44	MOLD
ATOM	4691	N	ASN	87	24.784	17.582	45.417	1.00	85.34	MOLD
ATOM	4692	CA	ASN	87	24.409	18.702	44.555	1.00	84.88	MOLD
ATOM	4693	CB	ASN	87	22.878	18.872	44.543	1.00	83.82	MOLD
ATOM	4694	CG	ASN	87	22.398	19.861	43.482	1.00	83.17	MOLD
ATOM	4695	OD1	ASN	87	22.578	19.640	42.281	1.00	77.70	MOLD
ATOM	4696	ND2	ASN	87	21.785	20.957	43.925	1.00	82.92	MOLD
ATOM	4697	C	ASN	87	25.079	20.017	44.967	1.00	86.13	MOLD
ATOM	4698	O	ASN	87	24.502	21.097	44.811	1.00	84.63	MOLD
ATOM	4699	N	GLU	88	26.297	19.932	45.496	1.00	88.91	MOLD
ATOM	4700	CA	GLU	88	27.019	21.143	45.892	1.00	90.04	MOLD
ATOM	4701	CB	GLU	88	26.977	21.331	47.420	1.00	91.57	MOLD
ATOM	4702	CG	GLU	88	25.569	21.391	48.025	1.00	92.38	MOLD
ATOM	4703	CD	GLU	88	25.557	21.964	49.442	1.00	96.38	MOLD
ATOM	4704	OE1	GLU	88	26.426	21.573	50.255	1.00	95.82	MOLD
ATOM	4705	OE2	GLU	88	24.675	22.800	49.744	1.00	94.53	MOLD
ATOM	4706	C	GLU	88	28.475	21.122	45.400	1.00	88.67	MOLD
ATOM	4707	O	GLU	88	29.298	21.937	45.836	1.00	85.76	MOLD
ATOM	4708	N	ASP	89	28.775	20.193	44.485	1.00	87.31	MOLD
ATOM	4709	CA	ASP	89	30.117	20.056	43.914	1.00	84.12	MOLD
ATOM	4710	CB	ASP	89	30.437	18.577	43.611	1.00	82.14	MOLD
ATOM	4711	CG	ASP	89	29.290	17.840	42.928	1.00	81.08	MOLD
ATOM	4712	OD1	ASP	89	28.202	17.745	43.535	1.00	84.55	MOLD
ATOM	4713	OD2	ASP	89	29.479	17.339	41.795	1.00	70.89	MOLD
ATOM	4714	C	ASP	89	30.356	20.915	42.662	1.00	83.77	MOLD
ATOM	4715	O	ASP	89	31.205	20.592	41.825	1.00	84.10	MOLD
ATOM	4716	N	CYS	90	29.607	22.013	42.550	1.00	81.35	MOLD
ATOM	4717	CA	CYS	90	29.735	22.947	41.430	1.00	80.72	MOLD
ATOM	4718	C	CYS	90	30.640	24.096	41.887	1.00	78.21	MOLD
ATOM	4719	O	CYS	90	30.479	24.599	42.996	1.00	77.54	MOLD
ATOM	4720	CB	CYS	90	28.348	23.462	41.016	1.00	82.08	MOLD
ATOM	4721	SG	CYS	90	27.306	22.187	40.218	1.00	88.35	MOLD
ATOM	4722	N	VAL	91	31.579	24.517	41.037	1.00	72.83	MOLD
ATOM	4723	CA	VAL	91	32.524	25.565	41.417	1.00	63.23	MOLD
ATOM	4724	CB	VAL	91	33.951	25.065	41.283	1.00	64.00	MOLD
ATOM	4725	CG1	VAL	91	34.878	25.950	42.085	1.00	62.83	MOLD
ATOM	4726	CG2	VAL	91	34.036	23.619	41.719	1.00	63.02	MOLD
ATOM	4727	C	VAL	91	32.468	26.882	40.669	1.00	63.13	MOLD
ATOM	4728	O	VAL	91	32.189	26.922	39.477	1.00	67.95	MOLD
ATOM	4729	N	GLU	92	32.762	27.966	41.374	1.00	59.66	MOLD
ATOM	4730	CA	GLU	92	32.774	29.281	40.758	1.00	63.03	MOLD
ATOM	4731	CB	GLU	92	31.895	30.260	41.555	1.00	67.52	MOLD
ATOM	4732	CG	GLU	92	32.417	30.662	42.936	1.00	65.72	MOLD
ATOM	4733	CD	GLU	92	31.561	31.751	43.592	1.00	69.10	MOLD
ATOM	4734	OE1	GLU	92	31.170	32.720	42.894	1.00	59.54	MOLD
ATOM	4735	OE2	GLU	92	31.289	31.646	44.810	1.00	70.78	MOLD
ATOM	4736	C	GLU	92	34.227	29.767	40.728	1.00	65.90	MOLD
ATOM	4737	O	GLU	92	35.094	29.165	41.362	1.00	64.76	MOLD
ATOM	4738	N	ILE	93	34.504	30.835	39.986	1.00	65.25	MOLD
ATOM	4739	CA	ILE	93	35.867	31.354	39.920	1.00	68.09	MOLD
ATOM	4740	CB	ILE	93	36.536	31.034	38.543	1.00	70.08	MOLD
ATOM	4741	CG2	ILE	93	35.738	31.663	37.403	1.00	74.07	MOLD
ATOM	4742	CG1	ILE	93	37.985	31.528	38.541	1.00	69.22	MOLD
ATOM	4743	CD1	ILE	93	38.760	31.183	37.302	1.00	64.40	MOLD
ATOM	4744	C	ILE	93	35.878	32.859	40.179	1.00	67.16	MOLD
ATOM	4745	O	ILE	93	35.246	33.630	39.456	1.00	67.19	MOLD
ATOM	4746	N	TYR	94	36.610	33.264	41.214	1.00	68.96	MOLD
ATOM	4747	CA	TYR	94	36.689	34.667	41.613	1.00	70.61	MOLD
ATOM	4748	CB	TYR	94	37.375	34.781	42.980	1.00	78.52	MOLD
ATOM	4749	CG	TYR	94	36.581	34.133	44.092	1.00	83.38	MOLD
ATOM	4750	CD1	TYR	94	35.310	34.602	44.426	1.00	86.48	MOLD
ATOM	4751	CE1	TYR	94	34.542	33.969	45.400	1.00	87.73	MOLD

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ATOM   4752  CD2 TYR    94      37.070  33.013  44.766  1.00 84.35      MOLD
ATOM   4753  CE2 TYR    94      36.311  32.371  45.740  1.00 85.93      MOLD
ATOM   4754  CZ  TYR    94      35.046  32.855  46.049  1.00 88.11      MOLD
ATOM   4755  OH  TYR    94      34.280  32.220  46.997  1.00 89.75      MOLD
ATOM   4756  C   TYR    94      37.363  35.607  40.636  1.00 68.03      MOLD
ATOM   4757  O   TYR    94      38.419  36.160  40.935  1.00 67.55      MOLD
ATOM   4758  N   ILE    95      36.743  35.805  39.475  1.00 67.20      MOLD
ATOM   4759  CA  ILE    95      37.302  36.705  38.471  1.00 65.40      MOLD
ATOM   4760  CB  ILE    95      36.517  36.639  37.149  1.00 59.10      MOLD
ATOM   4761  CG2 ILE    95      36.974  37.754  36.223  1.00 64.64      MOLD
ATOM   4762  CG1 ILE    95      36.717  35.268  36.492  1.00 62.66      MOLD
ATOM   4763  CD1 ILE    95      38.129  34.994  36.003  1.00 50.20      MOLD
ATOM   4764  C   ILE    95      37.311  38.140  38.986  1.00 66.86      MOLD
ATOM   4765  O   ILE    95      36.265  38.759  39.210  1.00 68.48      MOLD
ATOM   4766  N   LYS    96      38.515  38.657  39.182  1.00 67.86      MOLD
ATOM   4767  CA  LYS    96      38.710  40.012  39.678  1.00 70.33      MOLD
ATOM   4768  CB  LYS    96      38.105  41.030  38.697  1.00 68.61      MOLD
ATOM   4769  CG  LYS    96      38.953  41.249  37.435  1.00 70.47      MOLD
ATOM   4770  CD  LYS    96      38.345  42.285  36.484  1.00 68.43      MOLD
ATOM   4771  CE  LYS    96      39.316  42.675  35.368  1.00 68.72      MOLD
ATOM   4772  NZ  LYS    96      39.669  41.526  34.483  1.00 72.80      MOLD
ATOM   4773  C   LYS    96      38.191  40.260  41.106  1.00 67.52      MOLD
ATOM   4774  O   LYS    96      37.799  41.375  41.443  1.00 61.06      MOLD
ATOM   4775  N   SER    97      38.180  39.223  41.941  1.00 71.02      MOLD
ATOM   4776  CA  SER    97      37.761  39.402  43.331  1.00 75.59      MOLD
ATOM   4777  CB  SER    97      37.603  38.068  44.058  1.00 74.27      MOLD
ATOM   4778  OG  SER    97      37.454  38.292  45.457  1.00 77.31      MOLD
ATOM   4779  C   SER    97      38.881  40.191  44.003  1.00 78.76      MOLD
ATOM   4780  O   SER    97      40.049  39.800  43.944  1.00 78.70      MOLD
ATOM   4781  N   PRO    98      38.541  41.306  44.662  1.00 80.50      MOLD
ATOM   4782  CD  PRO    98      37.190  41.785  45.010  1.00 79.77      MOLD
ATOM   4783  CA  PRO    98      39.575  42.110  45.322  1.00 81.29      MOLD
ATOM   4784  CB  PRO    98      38.774  43.263  45.936  1.00 82.11      MOLD
ATOM   4785  CG  PRO    98      37.452  42.612  46.255  1.00 82.44      MOLD
ATOM   4786  C   PRO    98      40.400  41.341  46.360  1.00 80.98      MOLD
ATOM   4787  O   PRO    98      41.572  41.657  46.587  1.00 80.05      MOLD
ATOM   4788  N   SER    99      39.785  40.327  46.968  1.00 80.03      MOLD
ATOM   4789  CA  SER    99      40.433  39.519  47.997  1.00 77.18      MOLD
ATOM   4790  CB  SER    99      39.385  39.007  48.989  1.00 76.49      MOLD
ATOM   4791  OG  SER    99      38.361  38.287  48.322  1.00 81.03      MOLD
ATOM   4792  C   SER    99      41.251  38.339  47.484  1.00 76.00      MOLD
ATOM   4793  O   SER    99      42.419  38.188  47.852  1.00 72.82      MOLD
ATOM   4794  N   ALA   100      40.642  37.504  46.643  1.00 74.64      MOLD
ATOM   4795  CA  ALA   100      41.325  36.317  46.113  1.00 75.72      MOLD
ATOM   4796  CB  ALA   100      40.865  35.074  46.893  1.00 70.26      MOLD
ATOM   4797  C   ALA   100      41.106  36.105  44.605  1.00 75.40      MOLD
ATOM   4798  O   ALA   100      40.559  35.077  44.180  1.00 75.87      MOLD
ATOM   4799  N   PRO   101      41.556  37.061  43.777  1.00 72.51      MOLD
ATOM   4800  CD  PRO   101      42.426  38.204  44.113  1.00 75.08      MOLD
ATOM   4801  CA  PRO   101      41.386  36.947  42.323  1.00 74.13      MOLD
ATOM   4802  CB  PRO   101      42.106  38.194  41.791  1.00 75.07      MOLD
ATOM   4803  CG  PRO   101      43.181  38.431  42.811  1.00 75.20      MOLD
ATOM   4804  C   PRO   101      41.908  35.642  41.691  1.00 73.63      MOLD
ATOM   4805  O   PRO   101      43.091  35.298  41.817  1.00 71.23      MOLD
ATOM   4806  N   GLY   102      41.009  34.918  41.023  1.00 66.97      MOLD
ATOM   4807  CA  GLY   102      41.394  33.685  40.366  1.00 63.05      MOLD
ATOM   4808  C   GLY   102      41.171  32.415  41.161  1.00 66.08      MOLD
ATOM   4809  O   GLY   102      41.329  31.312  40.631  1.00 63.43      MOLD
ATOM   4810  N   LYS   103      40.807  32.539  42.431  1.00 67.51      MOLD
ATOM   4811  CA  LYS   103      40.587  31.337  43.224  1.00 66.74      MOLD
ATOM   4812  CB  LYS   103      40.832  31.630  44.703  1.00 73.61      MOLD
ATOM   4813  CG  LYS   103      42.260  31.315  45.159  1.00 74.26      MOLD
ATOM   4814  CD  LYS   103      43.297  32.229  44.523  1.00 80.41      MOLD
ATOM   4815  CE  LYS   103      44.709  31.707  44.791  1.00 81.33      MOLD
ATOM   4816  NZ  LYS   103      44.968  31.520  46.250  1.00 85.33      MOLD
ATOM   4817  C   LYS   103      39.200  30.736  43.013  1.00 66.45      MOLD
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ATOM	4818	O	LYS	103	38.276	31.416	42.554	1.00	64.14	MOLD
ATOM	4819	N	TRP	104	39.071	29.455	43.349	1.00	66.69	MOLD
ATOM	4820	CA	TRP	104	37.824	28.716	43.191	1.00	69.50	MOLD
ATOM	4821	CB	TRP	104	38.121	27.335	42.612	1.00	63.75	MOLD
ATOM	4822	CG	TRP	104	38.934	27.381	41.359	1.00	64.83	MOLD
ATOM	4823	CD2	TRP	104	39.628	26.289	40.758	1.00	61.23	MOLD
ATOM	4824	CE2	TRP	104	40.221	26.771	39.571	1.00	62.20	MOLD
ATOM	4825	CE3	TRP	104	39.807	24.944	41.108	1.00	59.08	MOLD
ATOM	4826	CD1	TRP	104	39.131	28.465	40.531	1.00	64.53	MOLD
ATOM	4827	NE1	TRP	104	39.903	28.101	39.456	1.00	63.24	MOLD
ATOM	4828	CZ2	TRP	104	40.983	25.950	38.732	1.00	63.96	MOLD
ATOM	4829	CZ3	TRP	104	40.564	24.128	40.273	1.00	58.22	MOLD
ATOM	4830	CH2	TRP	104	41.142	24.635	39.100	1.00	60.20	MOLD
ATOM	4831	C	TRP	104	37.035	28.559	44.494	1.00	76.95	MOLD
ATOM	4832	O	TRP	104	37.554	28.809	45.580	1.00	78.29	MOLD
ATOM	4833	N	ASN	105	35.777	28.134	44.375	1.00	80.75	MOLD
ATOM	4834	CA	ASN	105	34.906	27.951	45.536	1.00	82.25	MOLD
ATOM	4835	CB	ASN	105	34.445	29.312	46.090	1.00	83.83	MOLD
ATOM	4836	CG	ASN	105	33.310	29.182	47.117	1.00	84.55	MOLD
ATOM	4837	OD1	ASN	105	33.396	28.397	48.069	1.00	80.81	MOLD
ATOM	4838	ND2	ASN	105	32.248	29.962	46.927	1.00	83.41	MOLD
ATOM	4839	C	ASN	105	33.677	27.114	45.216	1.00	80.95	MOLD
ATOM	4840	O	ASN	105	32.929	27.419	44.278	1.00	78.88	MOLD
ATOM	4841	N	ASP	106	33.469	26.061	46.003	1.00	81.55	MOLD
ATOM	4842	CA	ASP	106	32.310	25.204	45.806	1.00	80.79	MOLD
ATOM	4843	CB	ASP	106	32.523	23.800	46.408	1.00	78.62	MOLD
ATOM	4844	CG	ASP	106	32.947	23.817	47.879	1.00	77.18	MOLD
ATOM	4845	OD1	ASP	106	33.047	24.894	48.518	1.00	69.48	MOLD
ATOM	4846	OD2	ASP	106	33.181	22.705	48.395	1.00	76.24	MOLD
ATOM	4847	C	ASP	106	31.072	25.852	46.393	1.00	80.08	MOLD
ATOM	4848	O	ASP	106	30.969	26.054	47.603	1.00	80.68	MOLD
ATOM	4849	N	GLU	107	30.151	26.205	45.504	1.00	81.63	MOLD
ATOM	4850	CA	GLU	107	28.893	26.824	45.876	1.00	80.53	MOLD
ATOM	4851	CB	GLU	107	28.756	28.171	45.158	1.00	79.08	MOLD
ATOM	4852	CG	GLU	107	27.667	29.082	45.700	1.00	82.99	MOLD
ATOM	4853	CD	GLU	107	27.778	29.292	47.202	1.00	86.51	MOLD
ATOM	4854	OE1	GLU	107	27.325	28.412	47.966	1.00	82.75	MOLD
ATOM	4855	OE2	GLU	107	28.330	30.330	47.622	1.00	88.02	MOLD
ATOM	4856	C	GLU	107	27.773	25.851	45.469	1.00	82.21	MOLD
ATOM	4857	O	GLU	107	28.044	24.796	44.880	1.00	75.35	MOLD
ATOM	4858	N	HIS	108	26.528	26.198	45.794	1.00	86.64	MOLD
ATOM	4859	CA	HIS	108	25.375	25.354	45.472	1.00	89.20	MOLD
ATOM	4860	CB	HIS	108	24.158	25.786	46.304	1.00	92.02	MOLD
ATOM	4861	CG	HIS	108	23.025	24.804	46.281	1.00	96.10	MOLD
ATOM	4862	CD2	HIS	108	21.702	24.972	46.045	1.00	97.11	MOLD
ATOM	4863	ND1	HIS	108	23.198	23.462	46.548	1.00	96.96	MOLD
ATOM	4864	CE1	HIS	108	22.032	22.845	46.476	1.00	96.26	MOLD
ATOM	4865	NE2	HIS	108	21.107	23.739	46.172	1.00	99.50	MOLD
ATOM	4866	C	HIS	108	25.057	25.439	43.976	1.00	90.03	MOLD
ATOM	4867	O	HIS	108	24.892	26.536	43.427	1.00	86.60	MOLD
ATOM	4868	N	CYS	109	24.966	24.271	43.335	1.00	91.33	MOLD
ATOM	4869	CA	CYS	109	24.705	24.166	41.895	1.00	91.24	MOLD
ATOM	4870	C	CYS	109	23.502	24.955	41.360	1.00	91.30	MOLD
ATOM	4871	O	CYS	109	23.349	25.092	40.142	1.00	89.05	MOLD
ATOM	4872	CB	CYS	109	24.554	22.688	41.479	1.00	91.66	MOLD
ATOM	4873	SG	CYS	109	26.014	21.596	41.672	1.00	94.19	MOLD
ATOM	4874	N	LEU	110	22.655	25.474	42.250	1.00	90.23	MOLD
ATOM	4875	CA	LEU	110	21.481	26.232	41.813	1.00	88.15	MOLD
ATOM	4876	CB	LEU	110	20.251	25.833	42.643	1.00	89.60	MOLD
ATOM	4877	CG	LEU	110	19.662	24.435	42.391	1.00	90.44	MOLD
ATOM	4878	CD1	LEU	110	18.437	24.229	43.274	1.00	87.73	MOLD
ATOM	4879	CD2	LEU	110	19.282	24.283	40.921	1.00	87.51	MOLD
ATOM	4880	C	LEU	110	21.661	27.756	41.835	1.00	86.13	MOLD
ATOM	4881	O	LEU	110	20.807	28.500	41.336	1.00	83.05	MOLD
ATOM	4882	N	LYS	111	22.769	28.218	42.410	1.00	83.17	MOLD
ATOM	4883	CA	LYS	111	23.067	29.649	42.468	1.00	83.41	MOLD

ATOM 4884 CB LYS 111 24.405 29.864 43.181 1.00 83.09 MOLD
ATOM 4885 CG LYS 111 24.380 29.682 44.694 1.00 85.12 MOLD
ATOM 4886 CD LYS 111 23.837 30.936 45.373 1.00 90.80 MOLD
ATOM 4887 CE LYS 111 24.175 30.980 46.865 1.00 94.01 MOLD
ATOM 4888 NZ LYS 111 23.552 29.874 47.655 1.00 95.35 MOLD
ATOM 4889 C LYS 111 23.144 30.223 41.043 1.00 83.75 MOLD
ATOM 4890 O LYS 111 23.382 29.483 40.086 1.00 84.61 MOLD
ATOM 4891 N LYS 112 22.947 31.530 40.894 1.00 82.58 MOLD
ATOM 4892 CA LYS 112 23.016 32.149 39.569 1.00 82.84 MOLD
ATOM 4893 CB LYS 112 21.830 33.083 39.338 1.00 84.61 MOLD
ATOM 4894 CG LYS 112 20.562 32.360 38.934 1.00 87.45 MOLD
ATOM 4895 CD LYS 112 19.503 33.334 38.446 1.00 89.18 MOLD
ATOM 4896 CE LYS 112 18.287 32.585 37.918 1.00 90.59 MOLD
ATOM 4897 NZ LYS 112 17.736 31.633 38.928 1.00 87.37 MOLD
ATOM 4898 C LYS 112 24.307 32.914 39.307 1.00 85.66 MOLD
ATOM 4899 O LYS 112 24.465 34.068 39.736 1.00 83.34 MOLD
ATOM 4900 N LYS 113 25.213 32.259 38.579 1.00 85.37 MOLD
ATOM 4901 CA LYS 113 26.515 32.825 38.225 1.00 83.44 MOLD
ATOM 4902 CB LYS 113 27.614 32.046 38.948 1.00 84.93 MOLD
ATOM 4903 CG LYS 113 27.354 31.805 40.428 1.00 83.07 MOLD
ATOM 4904 CD LYS 113 28.383 30.836 41.003 1.00 82.42 MOLD
ATOM 4905 CE LYS 113 28.276 30.738 42.510 1.00 76.76 MOLD
ATOM 4906 NZ LYS 113 28.580 32.054 43.126 1.00 71.45 MOLD
ATOM 4907 C LYS 113 26.749 32.749 36.702 1.00 81.24 MOLD
ATOM 4908 O LYS 113 26.273 31.818 36.044 1.00 78.17 MOLD
ATOM 4909 N HIS 114 27.485 33.719 36.151 1.00 78.30 MOLD
ATOM 4910 CA HIS 114 27.778 33.761 34.709 1.00 78.05 MOLD
ATOM 4911 CB HIS 114 28.605 34.993 34.347 1.00 72.91 MOLD
ATOM 4912 CG HIS 114 27.893 36.289 34.545 1.00 69.34 MOLD
ATOM 4913 CD2 HIS 114 27.651 37.309 33.689 1.00 73.41 MOLD
ATOM 4914 ND1 HIS 114 27.420 36.698 35.770 1.00 70.50 MOLD
ATOM 4915 CE1 HIS 114 26.925 37.918 35.663 1.00 73.88 MOLD
ATOM 4916 NE2 HIS 114 27.055 38.312 34.410 1.00 73.72 MOLD
ATOM 4917 C HIS 114 28.544 32.536 34.208 1.00 78.50 MOLD
ATOM 4918 O HIS 114 29.397 31.985 34.915 1.00 79.43 MOLD
ATOM 4919 N ALA 115 28.259 32.127 32.976 1.00 74.68 MOLD
ATOM 4920 CA ALA 115 28.936 30.968 32.404 1.00 72.71 MOLD
ATOM 4921 CB ALA 115 28.028 30.284 31.391 1.00 72.08 MOLD
ATOM 4922 C ALA 115 30.273 31.348 31.748 1.00 68.09 MOLD
ATOM 4923 O ALA 115 30.376 32.365 31.040 1.00 68.29 MOLD
ATOM 4924 N LEU 116 31.297 30.541 32.018 1.00 61.84 MOLD
ATOM 4925 CA LEU 116 32.629 30.742 31.441 1.00 58.61 MOLD
ATOM 4926 CB LEU 116 33.713 30.673 32.522 1.00 54.56 MOLD
ATOM 4927 CG LEU 116 35.119 31.004 32.033 1.00 53.46 MOLD
ATOM 4928 CD1 LEU 116 35.127 32.380 31.387 1.00 46.91 MOLD
ATOM 4929 CD2 LEU 116 36.092 30.951 33.195 1.00 55.16 MOLD
ATOM 4930 C LEU 116 32.778 29.577 30.476 1.00 55.48 MOLD
ATOM 4931 O LEU 116 32.845 28.418 30.898 1.00 51.92 MOLD
ATOM 4932 N CYS 117 32.824 29.885 29.183 1.00 55.48 MOLD
ATOM 4933 CA CYS 117 32.899 28.845 28.157 1.00 59.31 MOLD
ATOM 4934 C CYS 117 34.193 28.756 27.341 1.00 57.67 MOLD
ATOM 4935 O CYS 117 35.021 29.669 27.315 1.00 53.53 MOLD
ATOM 4936 CB CYS 117 31.732 29.016 27.178 1.00 60.22 MOLD
ATOM 4937 SG CYS 117 30.077 29.238 27.916 1.00 61.29 MOLD
ATOM 4938 N TYR 118 34.350 27.633 26.658 1.00 56.34 MOLD
ATOM 4939 CA TYR 118 35.511 27.458 25.812 1.00 58.77 MOLD
ATOM 4940 CB TYR 118 36.590 26.638 26.520 1.00 51.06 MOLD
ATOM 4941 CG TYR 118 36.417 25.140 26.392 1.00 48.20 MOLD
ATOM 4942 CD1 TYR 118 35.715 24.415 27.352 1.00 49.03 MOLD
ATOM 4943 CE1 TYR 118 35.610 23.010 27.277 1.00 45.16 MOLD
ATOM 4944 CD2 TYR 118 37.005 24.433 25.334 1.00 50.16 MOLD
ATOM 4945 CE2 TYR 118 36.899 23.028 25.241 1.00 47.20 MOLD
ATOM 4946 CZ TYR 118 36.202 22.325 26.224 1.00 48.35 MOLD
ATOM 4947 OH TYR 118 36.114 20.943 26.177 1.00 48.96 MOLD
ATOM 4948 C TYR 118 35.124 26.748 24.522 1.00 57.07 MOLD
ATOM 4949 O TYR 118 34.227 25.908 24.505 1.00 52.99 MOLD

ATOM	4950	N	THR	119	35.805	27.107	23.442	1.00	59.08	MOLD
ATOM	4951	CA	THR	119	35.586	26.465	22.153	1.00	56.03	MOLD
ATOM	4952	CB	THR	119	35.279	27.488	21.045	1.00	54.24	MOLD
ATOM	4953	OG1	THR	119	33.947	27.983	21.196	1.00	57.39	MOLD
ATOM	4954	CG2	THR	119	35.390	26.842	19.704	1.00	55.37	MOLD
ATOM	4955	C	THR	119	36.897	25.766	21.821	1.00	49.32	MOLD
ATOM	4956	O	THR	119	37.889	26.434	21.555	1.00	45.93	MOLD
ATOM	4957	N	ALA	120	36.893	24.435	21.845	1.00	47.70	MOLD
ATOM	4958	CA	ALA	120	38.081	23.620	21.553	1.00	49.87	MOLD
ATOM	4959	CB	ALA	120	37.686	22.128	21.459	1.00	41.96	MOLD
ATOM	4960	C	ALA	120	38.824	24.018	20.285	1.00	53.49	MOLD
ATOM	4961	O	ALA	120	38.300	23.843	19.196	1.00	61.63	MOLD
ATOM	4962	N	SER	121	40.045	24.536	20.417	1.00	54.77	MOLD
ATOM	4963	CA	SER	121	40.835	24.913	19.246	1.00	52.93	MOLD
ATOM	4964	CB	SER	121	42.142	25.595	19.656	1.00	51.78	MOLD
ATOM	4965	OG	SER	121	42.040	27.003	19.612	1.00	49.44	MOLD
ATOM	4966	C	SER	121	41.178	23.680	18.419	1.00	50.96	MOLD
ATOM	4967	O	SER	121	41.327	23.762	17.208	1.00	50.38	MOLD
ATOM	4968	N	CYS	122	41.300	22.534	19.077	1.00	53.83	MOLD
ATOM	4969	CA	CYS	122	41.646	21.301	18.377	1.00	55.99	MOLD
ATOM	4970	C	CYS	122	40.564	20.762	17.464	1.00	61.63	MOLD
ATOM	4971	O	CYS	122	39.558	20.208	17.929	1.00	64.83	MOLD
ATOM	4972	CB	CYS	122	42.037	20.212	19.374	1.00	53.89	MOLD
ATOM	4973	SG	CYS	122	43.623	20.549	20.199	1.00	50.89	MOLD
ATOM	4974	N	GLN	123	40.782	20.915	16.162	1.00	61.66	MOLD
ATOM	4975	CA	GLN	123	39.838	20.415	15.162	1.00	66.38	MOLD
ATOM	4976	CB	GLN	123	39.856	21.292	13.900	1.00	61.87	MOLD
ATOM	4977	CG	GLN	123	39.147	22.627	14.052	1.00	70.26	MOLD
ATOM	4978	CD	GLN	123	37.839	22.497	14.819	1.00	75.55	MOLD
ATOM	4979	OE1	GLN	123	37.816	22.573	16.051	1.00	78.13	MOLD
ATOM	4980	NE2	GLN	123	36.745	22.279	14.095	1.00	75.52	MOLD
ATOM	4981	C	GLN	123	40.150	18.968	14.771	1.00	68.06	MOLD
ATOM	4982	O	GLN	123	40.925	18.276	15.443	1.00	68.56	MOLD
ATOM	4983	N	ASP	124	39.538	18.521	13.677	1.00	69.42	MOLD
ATOM	4984	CA	ASP	124	39.731	17.166	13.170	1.00	71.96	MOLD
ATOM	4985	CB	ASP	124	38.620	16.819	12.168	1.00	77.09	MOLD
ATOM	4986	CG	ASP	124	38.791	15.432	11.560	1.00	82.12	MOLD
ATOM	4987	OD1	ASP	124	38.563	14.439	12.292	1.00	78.87	MOLD
ATOM	4988	OD2	ASP	124	39.160	15.338	10.360	1.00	79.08	MOLD
ATOM	4989	C	ASP	124	41.087	17.042	12.475	1.00	69.51	MOLD
ATOM	4990	O	ASP	124	41.825	16.079	12.688	1.00	64.96	MOLD
ATOM	4991	N	MET	125	41.405	18.029	11.642	1.00	66.02	MOLD
ATOM	4992	CA	MET	125	42.660	18.010	10.908	1.00	67.43	MOLD
ATOM	4993	CB	MET	125	42.533	18.804	9.596	1.00	69.44	MOLD
ATOM	4994	CG	MET	125	42.631	17.939	8.331	1.00	74.90	MOLD
ATOM	4995	SD	MET	125	44.107	16.848	8.267	1.00	80.23	MOLD
ATOM	4996	CE	MET	125	43.394	15.287	8.794	1.00	78.05	MOLD
ATOM	4997	C	MET	125	43.849	18.529	11.700	1.00	61.23	MOLD
ATOM	4998	O	MET	125	44.929	18.725	11.146	1.00	56.57	MOLD
ATOM	4999	N	SER	126	43.661	18.738	12.995	1.00	59.04	MOLD
ATOM	5000	CA	SER	126	44.744	19.235	13.828	1.00	52.53	MOLD
ATOM	5001	CB	SER	126	44.184	19.663	15.188	1.00	59.71	MOLD
ATOM	5002	OG	SER	126	43.348	20.811	15.070	1.00	53.74	MOLD
ATOM	5003	C	SER	126	45.868	18.205	14.011	1.00	44.98	MOLD
ATOM	5004	O	SER	126	45.624	17.038	14.326	1.00	40.53	MOLD
ATOM	5005	N	CYS	127	47.102	18.647	13.790	1.00	40.58	MOLD
ATOM	5006	CA	CYS	127	48.274	17.787	13.938	1.00	37.61	MOLD
ATOM	5007	C	CYS	127	48.226	16.646	12.936	1.00	37.85	MOLD
ATOM	5008	O	CYS	127	48.907	15.638	13.096	1.00	31.91	MOLD
ATOM	5009	CB	CYS	127	48.344	17.217	15.352	1.00	42.57	MOLD
ATOM	5010	SG	CYS	127	48.154	18.448	16.681	1.00	39.89	MOLD
ATOM	5011	N	SER	128	47.395	16.811	11.917	1.00	30.29	MOLD
ATOM	5012	CA	SER	128	47.280	15.835	10.855	1.00	30.91	MOLD
ATOM	5013	CB	SER	128	48.620	15.677	10.104	1.00	37.50	MOLD
ATOM	5014	OG	SER	128	49.193	16.905	9.668	1.00	37.60	MOLD
ATOM	5015	C	SER	128	46.891	14.465	11.359	1.00	31.77	MOLD

ATOM	5016	O	SER	128	47.203	13.488	10.692	1.00	35.47	MOLD
ATOM	5017	N	LYS	129	46.235	14.366	12.511	1.00	35.14	MOLD
ATOM	5018	CA	LYS	129	45.877	13.040	13.049	1.00	37.58	MOLD
ATOM	5019	CB	LYS	129	44.862	12.311	12.150	1.00	33.15	MOLD
ATOM	5020	CG	LYS	129	43.492	12.984	12.003	1.00	48.81	MOLD
ATOM	5021	CD	LYS	129	42.587	12.225	11.009	1.00	47.79	MOLD
ATOM	5022	CE	LYS	129	41.355	13.059	10.607	1.00	54.76	MOLD
ATOM	5023	NZ	LYS	129	40.730	12.631	9.298	1.00	53.16	MOLD
ATOM	5024	C	LYS	129	47.144	12.178	13.124	1.00	39.47	MOLD
ATOM	5025	O	LYS	129	47.080	10.938	12.990	1.00	38.84	MOLD
ATOM	5026	N	GLN	130	48.287	12.845	13.303	1.00	29.88	MOLD
ATOM	5027	CA	GLN	130	49.585	12.177	13.383	1.00	34.82	MOLD
ATOM	5028	CB	GLN	130	50.392	12.453	12.109	1.00	33.56	MOLD
ATOM	5029	CG	GLN	130	49.733	11.891	10.839	1.00	37.86	MOLD
ATOM	5030	CD	GLN	130	50.544	12.135	9.574	1.00	41.27	MOLD
ATOM	5031	OE1	GLN	130	51.157	13.193	9.409	1.00	40.95	MOLD
ATOM	5032	NE2	GLN	130	50.539	11.160	8.664	1.00	39.52	MOLD
ATOM	5033	C	GLN	130	50.389	12.617	14.616	1.00	34.11	MOLD
ATOM	5034	O	GLN	130	51.606	12.461	14.656	1.00	27.42	MOLD
ATOM	5035	N	GLY	131	49.677	13.147	15.614	1.00	32.88	MOLD
ATOM	5036	CA	GLY	131	50.271	13.628	16.852	1.00	37.14	MOLD
ATOM	5037	C	GLY	131	49.122	13.961	17.801	1.00	40.34	MOLD
ATOM	5038	O	GLY	131	47.950	13.857	17.424	1.00	41.04	MOLD
ATOM	5039	N	GLU	132	49.421	14.334	19.033	1.00	31.75	MOLD
ATOM	5040	CA	GLU	132	48.356	14.665	19.953	1.00	32.91	MOLD
ATOM	5041	CB	GLU	132	48.686	14.165	21.355	1.00	46.05	MOLD
ATOM	5042	CG	GLU	132	47.787	14.744	22.433	1.00	59.16	MOLD
ATOM	5043	CD	GLU	132	47.971	14.065	23.770	1.00	67.46	MOLD
ATOM	5044	OE1	GLU	132	47.596	12.879	23.878	1.00	72.35	MOLD
ATOM	5045	OE2	GLU	132	48.491	14.711	24.708	1.00	69.46	MOLD
ATOM	5046	C	GLU	132	48.178	16.179	19.945	1.00	35.33	MOLD
ATOM	5047	O	GLU	132	49.149	16.939	19.846	1.00	31.55	MOLD
ATOM	5048	N	CYS	133	46.925	16.613	20.025	1.00	41.09	MOLD
ATOM	5049	CA	CYS	133	46.606	18.029	19.991	1.00	40.08	MOLD
ATOM	5050	C	CYS	133	46.474	18.571	21.409	1.00	40.79	MOLD
ATOM	5051	O	CYS	133	45.739	18.014	22.216	1.00	38.22	MOLD
ATOM	5052	CB	CYS	133	45.311	18.242	19.205	1.00	36.09	MOLD
ATOM	5053	SG	CYS	133	45.004	19.987	18.811	1.00	41.86	MOLD
ATOM	5054	N	LEU	134	47.200	19.641	21.713	1.00	39.14	MOLD
ATOM	5055	CA	LEU	134	47.154	20.222	23.046	1.00	44.11	MOLD
ATOM	5056	CB	LEU	134	48.555	20.329	23.653	1.00	48.91	MOLD
ATOM	5057	CG	LEU	134	49.258	19.059	24.169	1.00	61.52	MOLD
ATOM	5058	CD1	LEU	134	49.619	18.108	23.023	1.00	57.28	MOLD
ATOM	5059	CD2	LEU	134	50.531	19.473	24.917	1.00	57.65	MOLD
ATOM	5060	C	LEU	134	46.545	21.598	22.980	1.00	44.16	MOLD
ATOM	5061	O	LEU	134	47.007	22.453	22.213	1.00	41.86	MOLD
ATOM	5062	N	GLU	135	45.506	21.822	23.777	1.00	40.93	MOLD
ATOM	5063	CA	GLU	135	44.869	23.129	23.775	1.00	37.36	MOLD
ATOM	5064	CB	GLU	135	43.496	23.057	24.460	1.00	40.00	MOLD
ATOM	5065	CG	GLU	135	42.499	22.038	23.858	1.00	39.53	MOLD
ATOM	5066	CD	GLU	135	41.717	22.549	22.638	1.00	44.21	MOLD
ATOM	5067	OE1	GLU	135	41.755	23.772	22.327	1.00	37.42	MOLD
ATOM	5068	OE2	GLU	135	41.042	21.706	21.996	1.00	39.42	MOLD
ATOM	5069	C	GLU	135	45.768	24.143	24.504	1.00	41.39	MOLD
ATOM	5070	O	GLU	135	46.436	23.812	25.485	1.00	37.46	MOLD
ATOM	5071	N	THR	136	45.808	25.367	23.992	1.00	39.14	MOLD
ATOM	5072	CA	THR	136	46.574	26.439	24.621	1.00	43.73	MOLD
ATOM	5073	CB	THR	136	47.803	26.867	23.821	1.00	41.85	MOLD
ATOM	5074	OG1	THR	136	47.378	27.408	22.565	1.00	41.35	MOLD
ATOM	5075	CG2	THR	136	48.745	25.694	23.610	1.00	35.43	MOLD
ATOM	5076	C	THR	136	45.659	27.636	24.641	1.00	47.49	MOLD
ATOM	5077	O	THR	136	44.526	27.575	24.149	1.00	47.66	MOLD
ATOM	5078	N	ILE	137	46.151	28.729	25.205	1.00	49.45	MOLD
ATOM	5079	CA	ILE	137	45.363	29.937	25.269	1.00	49.09	MOLD
ATOM	5080	CB	ILE	137	46.070	31.024	26.107	1.00	54.85	MOLD
ATOM	5081	CG2	ILE	137	45.256	32.329	26.079	1.00	54.93	MOLD

ATOM	5082	CG1	ILE	137	46.256	30.523	27.544	1.00	55.64	MOLD
ATOM	5083	CD1	ILE	137	46.766	31.581	28.508	1.00	44.68	MOLD
ATOM	5084	C	ILE	137	45.111	30.463	23.860	1.00	49.75	MOLD
ATOM	5085	O	ILE	137	45.997	31.002	23.217	1.00	45.15	MOLD
ATOM	5086	N	GLY	138	43.888	30.267	23.388	1.00	55.61	MOLD
ATOM	5087	CA	GLY	138	43.487	30.749	22.077	1.00	59.27	MOLD
ATOM	5088	C	GLY	138	44.110	30.055	20.890	1.00	58.92	MOLD
ATOM	5089	O	GLY	138	44.310	30.680	19.845	1.00	58.81	MOLD
ATOM	5090	N	ASN	139	44.389	28.764	21.024	1.00	54.57	MOLD
ATOM	5091	CA	ASN	139	45.021	28.041	19.935	1.00	50.01	MOLD
ATOM	5092	CB	ASN	139	46.257	28.829	19.473	1.00	50.53	MOLD
ATOM	5093	CG	ASN	139	46.821	28.336	18.156	1.00	48.74	MOLD
ATOM	5094	OD1	ASN	139	46.097	27.842	17.300	1.00	49.22	MOLD
ATOM	5095	ND2	ASN	139	48.125	28.499	17.981	1.00	52.13	MOLD
ATOM	5096	C	ASN	139	45.419	26.663	20.442	1.00	50.09	MOLD
ATOM	5097	O	ASN	139	44.827	26.158	21.403	1.00	47.92	MOLD
ATOM	5098	N	TYR	140	46.424	26.068	19.803	1.00	46.73	MOLD
ATOM	5099	CA	TYR	140	46.898	24.747	20.191	1.00	46.26	MOLD
ATOM	5100	CB	TYR	140	45.922	23.684	19.676	1.00	44.07	MOLD
ATOM	5101	CG	TYR	140	45.889	23.592	18.170	1.00	47.40	MOLD
ATOM	5102	CD1	TYR	140	45.185	24.525	17.401	1.00	50.13	MOLD
ATOM	5103	CE1	TYR	140	45.220	24.488	15.994	1.00	45.19	MOLD
ATOM	5104	CD2	TYR	140	46.621	22.615	17.505	1.00	49.64	MOLD
ATOM	5105	CE2	TYR	140	46.670	22.569	16.102	1.00	53.08	MOLD
ATOM	5106	CZ	TYR	140	45.971	23.508	15.354	1.00	53.44	MOLD
ATOM	5107	OH	TYR	140	46.068	23.477	13.982	1.00	40.22	MOLD
ATOM	5108	C	TYR	140	48.297	24.439	19.649	1.00	44.99	MOLD
ATOM	5109	O	TYR	140	48.863	25.211	18.864	1.00	46.68	MOLD
ATOM	5110	N	THR	141	48.846	23.306	20.085	1.00	42.92	MOLD
ATOM	5111	CA	THR	141	50.151	22.814	19.618	1.00	40.63	MOLD
ATOM	5112	CB	THR	141	51.294	23.044	20.635	1.00	43.08	MOLD
ATOM	5113	OG1	THR	141	50.924	22.510	21.923	1.00	37.77	MOLD
ATOM	5114	CG2	THR	141	51.605	24.526	20.738	1.00	40.83	MOLD
ATOM	5115	C	THR	141	50.055	21.316	19.364	1.00	39.07	MOLD
ATOM	5116	O	THR	141	49.023	20.680	19.646	1.00	42.51	MOLD
ATOM	5117	N	CYS	142	51.135	20.743	18.845	1.00	42.69	MOLD
ATOM	5118	CA	CYS	142	51.139	19.319	18.541	1.00	40.43	MOLD
ATOM	5119	C	CYS	142	52.338	18.554	19.088	1.00	46.24	MOLD
ATOM	5120	O	CYS	142	53.474	19.034	19.029	1.00	49.20	MOLD
ATOM	5121	CB	CYS	142	51.068	19.126	17.026	1.00	41.22	MOLD
ATOM	5122	SG	CYS	142	49.577	19.815	16.219	1.00	41.51	MOLD
ATOM	5123	N	SER	143	52.064	17.380	19.658	1.00	43.44	MOLD
ATOM	5124	CA	SER	143	53.104	16.494	20.155	1.00	43.92	MOLD
ATOM	5125	CB	SER	143	52.794	15.997	21.571	1.00	45.17	MOLD
ATOM	5126	OG	SER	143	52.618	17.082	22.458	1.00	59.34	MOLD
ATOM	5127	C	SER	143	52.964	15.351	19.165	1.00	40.45	MOLD
ATOM	5128	O	SER	143	51.996	14.599	19.228	1.00	39.52	MOLD
ATOM	5129	N	CYS	144	53.915	15.229	18.248	1.00	35.92	MOLD
ATOM	5130	CA	CYS	144	53.848	14.196	17.214	1.00	40.28	MOLD
ATOM	5131	C	CYS	144	54.103	12.777	17.661	1.00	42.94	MOLD
ATOM	5132	O	CYS	144	54.791	12.524	18.646	1.00	43.39	MOLD
ATOM	5133	CB	CYS	144	54.827	14.518	16.083	1.00	39.02	MOLD
ATOM	5134	SG	CYS	144	54.605	16.198	15.432	1.00	38.45	MOLD
ATOM	5135	N	TYR	145	53.537	11.841	16.919	1.00	43.09	MOLD
ATOM	5136	CA	TYR	145	53.759	10.447	17.219	1.00	41.77	MOLD
ATOM	5137	CB	TYR	145	52.654	9.580	16.631	1.00	33.71	MOLD
ATOM	5138	CG	TYR	145	51.292	9.940	17.144	1.00	49.34	MOLD
ATOM	5139	CD1	TYR	145	51.094	10.254	18.488	1.00	50.39	MOLD
ATOM	5140	CE1	TYR	145	49.815	10.535	18.987	1.00	53.30	MOLD
ATOM	5141	CD2	TYR	145	50.180	9.920	16.299	1.00	51.98	MOLD
ATOM	5142	CE2	TYR	145	48.897	10.199	16.781	1.00	55.78	MOLD
ATOM	5143	CZ	TYR	145	48.719	10.503	18.129	1.00	56.37	MOLD
ATOM	5144	OH	TYR	145	47.446	10.749	18.610	1.00	57.76	MOLD
ATOM	5145	C	TYR	145	55.093	10.110	16.577	1.00	40.38	MOLD
ATOM	5146	O	TYR	145	55.537	10.770	15.640	1.00	44.64	MOLD
ATOM	5147	N	PRO	146	55.752	9.070	17.070	1.00	38.98	MOLD

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ATOM   5148  CD  PRO   146      55.269   8.110  18.075  1.00 35.09      MOLD
ATOM   5149  CA  PRO   146      57.044   8.666  16.529  1.00 37.60      MOLD
ATOM   5150  CB  PRO   146      57.253   7.299  17.164  1.00 42.50      MOLD
ATOM   5151  CG  PRO   146      56.545   7.452  18.496  1.00 39.57      MOLD
ATOM   5152  C   PRO   146      56.992   8.597  15.015  1.00 38.15      MOLD
ATOM   5153  O   PRO   146      56.014   8.109  14.460  1.00 41.67      MOLD
ATOM   5154  N   GLY   147      58.030   9.090  14.345  1.00 35.66      MOLD
ATOM   5155  CA  GLY   147      58.047   9.035  12.887  1.00 34.64      MOLD
ATOM   5156  C   GLY   147      57.363  10.188  12.164  1.00 39.55      MOLD
ATOM   5157  O   GLY   147      57.342  10.218  10.936  1.00 44.03      MOLD
ATOM   5158  N   PHE   148      56.777  11.126  12.907  1.00 36.69      MOLD
ATOM   5159  CA  PHE   148      56.131  12.284  12.292  1.00 38.19      MOLD
ATOM   5160  CB  PHE   148      54.620  12.264  12.531  1.00 34.02      MOLD
ATOM   5161  CG  PHE   148      53.939  11.073  11.956  1.00 42.12      MOLD
ATOM   5162  CD1 PHE   148      53.819   9.896  12.700  1.00 43.96      MOLD
ATOM   5163  CD2 PHE   148      53.446  11.103  10.650  1.00 36.94      MOLD
ATOM   5164  CE1 PHE   148      53.223   8.775  12.156  1.00 42.11      MOLD
ATOM   5165  CE2 PHE   148      52.848   9.985  10.093  1.00 38.81      MOLD
ATOM   5166  CZ  PHE   148      52.732   8.816  10.842  1.00 45.63      MOLD
ATOM   5167  C   PHE   148      56.703  13.569  12.883  1.00 37.48      MOLD
ATOM   5168  O   PHE   148      57.074  13.606  14.060  1.00 33.19      MOLD
ATOM   5169  N   TYR   149      56.774  14.625  12.079  1.00 37.31      MOLD
ATOM   5170  CA  TYR   149      57.295  15.883  12.604  1.00 32.81      MOLD
ATOM   5171  CB  TYR   149      58.826  15.892  12.542  1.00 32.64      MOLD
ATOM   5172  CG  TYR   149      59.408  15.827  11.156  1.00 26.92      MOLD
ATOM   5173  CD1 TYR   149      59.605  14.605  10.516  1.00 28.79      MOLD
ATOM   5174  CE1 TYR   149      60.177  14.546   9.216  1.00 31.52      MOLD
ATOM   5175  CD2 TYR   149      59.782  17.000  10.481  1.00 21.32      MOLD
ATOM   5176  CE2 TYR   149      60.349  16.961   9.198  1.00 20.28      MOLD
ATOM   5177  CZ  TYR   149      60.546  15.734   8.568  1.00 29.53      MOLD
ATOM   5178  OH  TYR   149      61.105  15.684   7.304  1.00 28.29      MOLD
ATOM   5179  C   TYR   149      56.730  17.118  11.919  1.00 37.35      MOLD
ATOM   5180  O   TYR   149      55.965  17.027  10.947  1.00 35.36      MOLD
ATOM   5181  N   GLY   150      57.089  18.277  12.458  1.00 33.23      MOLD
ATOM   5182  CA  GLY   150      56.626  19.526  11.905  1.00 30.09      MOLD
ATOM   5183  C   GLY   150      55.622  20.139  12.843  1.00 32.37      MOLD
ATOM   5184  O   GLY   150      55.095  19.452  13.711  1.00 31.29      MOLD
ATOM   5185  N   PRO   151      55.323  21.435  12.689  1.00 38.40      MOLD
ATOM   5186  CD  PRO   151      55.911  22.382  11.721  1.00 41.72      MOLD
ATOM   5187  CA  PRO   151      54.357  22.092  13.573  1.00 38.65      MOLD
ATOM   5188  CB  PRO   151      54.367  23.556  13.092  1.00 32.71      MOLD
ATOM   5189  CG  PRO   151      54.907  23.499  11.684  1.00 33.37      MOLD
ATOM   5190  C   PRO   151      52.967  21.442  13.584  1.00 36.73      MOLD
ATOM   5191  O   PRO   151      52.246  21.543  14.567  1.00 43.26      MOLD
ATOM   5192  N   GLU   152      52.587  20.763  12.508  1.00 36.14      MOLD
ATOM   5193  CA  GLU   152      51.291  20.080  12.489  1.00 32.66      MOLD
ATOM   5194  CB  GLU   152      50.418  20.595  11.331  1.00 35.40      MOLD
ATOM   5195  CG  GLU   152      49.826  22.002  11.503  1.00 31.21      MOLD
ATOM   5196  CD  GLU   152      48.700  22.055  12.532  1.00 33.67      MOLD
ATOM   5197  OE1 GLU   152      48.014  21.026  12.732  1.00 35.42      MOLD
ATOM   5198  OE2 GLU   152      48.488  23.131  13.129  1.00 36.43      MOLD
ATOM   5199  C   GLU   152      51.542  18.580  12.288  1.00 33.84      MOLD
ATOM   5200  O   GLU   152      50.643  17.858  11.839  1.00 37.52      MOLD
ATOM   5201  N   CYS   153      52.753  18.120  12.616  1.00 32.63      MOLD
ATOM   5202  CA  CYS   153      53.138  16.706  12.439  1.00 37.33      MOLD
ATOM   5203  C   CYS   153      52.800  16.281  11.003  1.00 33.76      MOLD
ATOM   5204  O   CYS   153      52.474  15.122  10.750  1.00 32.66      MOLD
ATOM   5205  CB  CYS   153      52.378  15.797  13.422  1.00 35.90      MOLD
ATOM   5206  SG  CYS   153      52.580  16.305  15.157  1.00 37.50      MOLD
ATOM   5207  N   GLU   154      52.895  17.233  10.075  1.00 28.99      MOLD
ATOM   5208  CA  GLU   154      52.562  16.990   8.685  1.00 25.88      MOLD
ATOM   5209  CB  GLU   154      52.196  18.311   7.977  1.00 31.34      MOLD
ATOM   5210  CG  GLU   154      53.293  19.399   7.907  1.00 27.71      MOLD
ATOM   5211  CD  GLU   154      53.298  20.350   9.110  1.00 33.42      MOLD
ATOM   5212  OE1 GLU   154      53.704  19.922  10.222  1.00 32.75      MOLD
ATOM   5213  OE2 GLU   154      52.886  21.528   8.939  1.00 29.31      MOLD
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ATOM	5214	C	GLU	154	53.615	16.268	7.880	1.00	27.35	MOLD
ATOM	5215	O	GLU	154	53.339	15.801	6.774	1.00	29.66	MOLD
ATOM	5216	N	TYR	155	54.819	16.162	8.420	1.00	29.84	MOLD
ATOM	5217	CA	TYR	155	55.893	15.490	7.689	1.00	32.86	MOLD
ATOM	5218	CB	TYR	155	57.180	16.309	7.798	1.00	31.05	MOLD
ATOM	5219	CG	TYR	155	57.035	17.696	7.196	1.00	31.14	MOLD
ATOM	5220	CD1	TYR	155	56.929	17.877	5.813	1.00	25.40	MOLD
ATOM	5221	CE1	TYR	155	56.806	19.168	5.260	1.00	28.91	MOLD
ATOM	5222	CD2	TYR	155	57.012	18.825	8.012	1.00	28.78	MOLD
ATOM	5223	CE2	TYR	155	56.891	20.104	7.483	1.00	29.59	MOLD
ATOM	5224	CZ	TYR	155	56.790	20.277	6.113	1.00	35.87	MOLD
ATOM	5225	OH	TYR	155	56.694	21.562	5.613	1.00	29.40	MOLD
ATOM	5226	C	TYR	155	56.110	14.060	8.175	1.00	28.98	MOLD
ATOM	5227	O	TYR	155	55.982	13.771	9.362	1.00	28.29	MOLD
ATOM	5228	N	VAL	156	56.453	13.174	7.251	1.00	30.39	MOLD
ATOM	5229	CA	VAL	156	56.628	11.764	7.582	1.00	30.23	MOLD
ATOM	5230	CB	VAL	156	55.665	10.874	6.715	1.00	33.35	MOLD
ATOM	5231	CG1	VAL	156	55.671	9.422	7.217	1.00	17.61	MOLD
ATOM	5232	CG2	VAL	156	54.255	11.453	6.750	1.00	17.00	MOLD
ATOM	5233	C	VAL	156	58.046	11.300	7.342	1.00	31.41	MOLD
ATOM	5234	O	VAL	156	58.507	11.343	6.220	1.00	28.76	MOLD
ATOM	5235	N	ARG	157	58.730	10.849	8.390	1.00	33.78	MOLD
ATOM	5236	CA	ARG	157	60.111	10.357	8.265	1.00	41.18	MOLD
ATOM	5237	CB	ARG	157	60.588	9.795	9.608	1.00	36.73	MOLD
ATOM	5238	CG	ARG	157	60.832	10.844	10.669	1.00	43.95	MOLD
ATOM	5239	CD	ARG	157	62.023	11.695	10.281	1.00	42.24	MOLD
ATOM	5240	NE	ARG	157	63.257	10.940	10.421	1.00	41.06	MOLD
ATOM	5241	CZ	ARG	157	63.866	10.737	11.585	1.00	43.14	MOLD
ATOM	5242	NH1	ARG	157	63.361	11.240	12.700	1.00	34.34	MOLD
ATOM	5243	NH2	ARG	157	64.967	10.013	11.638	1.00	40.05	MOLD
ATOM	5244	C	ARG	157	60.231	9.260	7.191	1.00	42.80	MOLD
ATOM	5245	O	ARG	157	59.388	8.378	7.111	1.00	39.62	MOLD
ATOM	5246	N	ASP	158	61.279	9.299	6.378	1.00	49.66	MOLD
ATOM	5247	CA	ASP	158	61.432	8.281	5.343	1.00	60.94	MOLD
ATOM	5248	CB	ASP	158	62.337	8.782	4.212	1.00	60.13	MOLD
ATOM	5249	CG	ASP	158	61.611	9.721	3.264	1.00	68.41	MOLD
ATOM	5250	OD1	ASP	158	60.389	9.509	3.050	1.00	67.84	MOLD
ATOM	5251	OD2	ASP	158	62.257	10.655	2.727	1.00	64.98	MOLD
ATOM	5252	C	ASP	158	61.944	6.936	5.836	1.00	63.71	MOLD
ATOM	5253	O	ASP	158	61.395	5.888	5.491	1.00	61.99	MOLD
ATOM	5254	N	ALA	159	62.999	6.960	6.634	1.00	70.67	MOLD
ATOM	5255	CA	ALA	159	63.560	5.717	7.138	1.00	82.58	MOLD
ATOM	5256	CB	ALA	159	65.064	5.639	6.811	1.00	79.76	MOLD
ATOM	5257	C	ALA	159	63.336	5.616	8.640	1.00	89.18	MOLD
ATOM	5258	O	ALA	159	63.365	6.630	9.353	1.00	91.74	MOLD
ATOM	5259	N	ALA	160	63.102	4.393	9.116	1.00	94.14	MOLD
ATOM	5260	CA	ALA	160	62.883	4.149	10.543	1.00	96.46	MOLD
ATOM	5261	CB	ALA	160	62.057	2.863	10.736	1.00	93.92	MOLD
ATOM	5262	C	ALA	160	64.227	4.039	11.287	1.00	96.52	MOLD
ATOM	5263	O	ALA	160	65.257	3.786	10.613	1.00	97.29	MOLD
ATOM	5264	OXT	ALA	160	64.233	4.202	12.533	1.00	92.23	MOLD
ATOM	5265	OH2	WAT	901	48.922	29.017	26.864	1.00	26.02	SOLV
ATOM	5266	OH2	WAT	902	60.475	21.670	12.675	1.00	26.76	SOLV
ATOM	5267	OH2	WAT	903	33.312	-6.257	-4.048	1.00	20.62	SOLV
ATOM	5268	OH2	WAT	904	25.793	-3.739	9.470	1.00	26.24	SOLV
ATOM	5269	OH2	WAT	905	74.423	20.441	17.474	1.00	34.04	SOLV
ATOM	5270	OH2	WAT	906	68.551	21.952	9.602	1.00	27.75	SOLV
ATOM	5271	OH2	WAT	907	52.749	19.884	62.385	1.00	34.22	SOLV
ATOM	5272	OH2	WAT	908	56.986	13.917	4.345	1.00	22.01	SOLV
ATOM	5273	OH2	WAT	909	37.591	2.450	-8.420	1.00	38.22	SOLV
ATOM	5274	OH2	WAT	910	47.032	-3.296	3.304	1.00	24.93	SOLV
ATOM	5275	OH2	WAT	911	39.932	21.224	76.640	1.00	36.41	SOLV
ATOM	5276	OH2	WAT	912	29.255	14.666	81.211	1.00	40.95	SOLV
ATOM	5277	OH2	WAT	913	58.778	30.300	5.719	1.00	28.66	SOLV
ATOM	5278	OH2	WAT	914	57.016	26.542	8.840	1.00	27.08	SOLV
ATOM	5279	OH2	WAT	915	36.023	3.818	6.450	1.00	31.54	SOLV

ATOM	5280	OH2	WAT	916	59.265	5.889	56.674	1.00	30.80	SOLV
ATOM	5281	OH2	WAT	917	32.076	-14.685	-0.679	1.00	29.90	SOLV
ATOM	5282	OH2	WAT	918	9.589	-4.245	15.259	1.00	46.53	SOLV
ATOM	5283	OH2	WAT	919	75.919	12.256	61.534	1.00	34.51	SOLV
ATOM	5284	OH2	WAT	920	62.523	31.295	2.264	1.00	31.85	SOLV
ATOM	5285	OH2	WAT	921	75.994	26.590	10.352	1.00	33.75	SOLV
ATOM	5286	OH2	WAT	922	58.979	33.021	10.763	1.00	31.47	SOLV
ATOM	5287	OH2	WAT	923	24.820	0.496	9.390	1.00	29.32	SOLV
ATOM	5288	OH2	WAT	924	63.625	29.075	1.454	1.00	29.94	SOLV
ATOM	5289	OH2	WAT	925	46.399	15.495	1.388	1.00	33.76	SOLV
ATOM	5290	OH2	WAT	926	31.490	-1.758	17.258	1.00	30.01	SOLV
ATOM	5291	OH2	WAT	927	52.422	23.971	10.162	1.00	36.48	SOLV
ATOM	5292	OH2	WAT	928	44.517	-6.073	13.510	1.00	31.45	SOLV
ATOM	5293	OH2	WAT	929	17.658	-1.036	1.315	1.00	29.38	SOLV
ATOM	5294	OH2	WAT	930	42.370	20.968	5.988	1.00	41.67	SOLV
ATOM	5295	OH2	WAT	931	59.779	31.022	3.211	1.00	31.20	SOLV
ATOM	5296	OH2	WAT	932	41.580	27.370	30.880	1.00	39.12	SOLV
ATOM	5297	OH2	WAT	933	42.711	25.009	12.526	1.00	40.91	SOLV
ATOM	5298	OH2	WAT	934	44.521	-6.668	3.112	1.00	29.06	SOLV
ATOM	5299	OH2	WAT	935	58.408	20.966	47.264	1.00	39.04	SOLV
ATOM	5300	OH2	WAT	936	60.557	32.114	8.846	1.00	31.65	SOLV
ATOM	5301	OH2	WAT	937	63.697	12.007	-1.643	1.00	32.97	SOLV
ATOM	5302	OH2	WAT	938	63.350	21.377	14.030	1.00	36.52	SOLV
ATOM	5303	OH2	WAT	939	71.172	0.520	49.544	1.00	35.82	SOLV
ATOM	5304	OH2	WAT	940	40.874	4.956	-7.419	1.00	34.12	SOLV
ATOM	5305	OH2	WAT	941	37.321	23.063	75.065	1.00	37.72	SOLV
ATOM	5306	OH2	WAT	942	39.716	12.246	2.021	1.00	41.36	SOLV
ATOM	5307	OH2	WAT	943	58.629	10.917	59.796	1.00	31.23	SOLV
ATOM	5308	OH2	WAT	944	28.911	4.267	10.321	1.00	29.24	SOLV
ATOM	5309	OH2	WAT	945	57.088	34.964	6.776	1.00	30.77	SOLV
ATOM	5310	OH2	WAT	946	58.878	34.111	3.534	1.00	35.43	SOLV
ATOM	5311	OH2	WAT	947	48.956	12.118	54.423	1.00	37.41	SOLV
ATOM	5312	OH2	WAT	948	57.658	14.342	57.810	1.00	42.40	SOLV
ATOM	5313	OH2	WAT	949	73.332	25.070	54.137	1.00	42.26	SOLV
ATOM	5314	OH2	WAT	950	46.437	16.913	71.844	1.00	34.96	SOLV
ATOM	5315	OH2	WAT	951	47.718	26.438	27.961	1.00	37.97	SOLV
ATOM	5316	OH2	WAT	952	39.501	22.225	3.121	1.00	38.58	SOLV
ATOM	5317	OH2	WAT	953	77.158	18.151	-9.064	1.00	48.94	SOLV
ATOM	5318	OH2	WAT	954	96.438	6.940	9.299	1.00	41.03	SOLV
ATOM	5319	OH2	WAT	955	39.110	25.615	28.554	1.00	40.98	SOLV
ATOM	5320	OH2	WAT	956	67.149	13.741	16.214	1.00	46.48	SOLV
ATOM	5321	OH2	WAT	957	49.940	16.169	45.368	1.00	52.01	SOLV
ATOM	5322	OH2	WAT	958	51.443	8.933	52.924	1.00	38.70	SOLV
ATOM	5323	OH2	WAT	959	40.387	-2.779	-5.089	1.00	31.73	SOLV
ATOM	5324	OH2	WAT	960	60.958	25.349	52.326	1.00	48.23	SOLV
ATOM	5325	OH2	WAT	961	42.262	16.082	72.596	1.00	37.58	SOLV
ATOM	5326	OH2	WAT	962	48.478	-6.751	4.105	1.00	42.49	SOLV
ATOM	5327	OH2	WAT	963	40.722	-9.051	-0.623	1.00	38.12	SOLV
ATOM	5328	OH2	WAT	964	40.869	14.415	14.383	1.00	38.37	SOLV
ATOM	5329	OH2	WAT	965	73.810	10.216	16.535	1.00	53.29	SOLV
ATOM	5330	OH2	WAT	966	50.870	20.458	59.655	1.00	48.26	SOLV
ATOM	5331	OH2	WAT	967	70.841	15.356	63.190	1.00	32.83	SOLV
ATOM	5332	OH2	WAT	968	61.291	4.613	68.000	1.00	37.58	SOLV
ATOM	5333	OH2	WAT	969	41.182	3.466	79.912	1.00	50.26	SOLV
ATOM	5334	OH2	WAT	970	58.805	18.759	14.839	1.00	34.65	SOLV
ATOM	5335	OH2	WAT	971	48.970	17.565	6.812	1.00	36.80	SOLV
ATOM	5336	OH2	WAT	972	32.497	3.850	-10.667	1.00	29.36	SOLV
ATOM	5337	OH2	WAT	973	13.427	-2.229	2.898	1.00	31.37	SOLV
ATOM	5338	OH2	WAT	974	29.355	-11.279	16.412	1.00	35.85	SOLV
ATOM	5339	OH2	WAT	975	42.550	-11.924	5.585	1.00	34.13	SOLV
ATOM	5340	OH2	WAT	976	29.339	-4.623	18.238	1.00	37.61	SOLV
ATOM	5341	OH2	WAT	977	48.935	25.131	11.245	1.00	33.71	SOLV
ATOM	5342	OH2	WAT	978	23.851	9.299	12.454	1.00	36.49	SOLV
ATOM	5343	OH2	WAT	979	69.001	-0.961	55.887	1.00	48.24	SOLV
ATOM	5344	OH2	WAT	980	72.817	15.668	-4.129	1.00	38.33	SOLV
ATOM	5345	OH2	WAT	981	39.592	17.370	74.470	1.00	43.94	SOLV

ATOM	5346	OH2	WAT	982	25.334	10.839	10.940	1.00	47.94	SOLV
ATOM	5347	OH2	WAT	983	64.553	11.983	3.121	1.00	32.36	SOLV
ATOM	5348	OH2	WAT	984	14.929	-0.257	1.677	1.00	32.10	SOLV
ATOM	5349	OH2	WAT	985	41.400	-3.217	-2.528	1.00	31.25	SOLV
ATOM	5350	OH2	WAT	986	50.162	15.144	2.834	1.00	29.41	SOLV
ATOM	5351	OH2	WAT	987	11.048	-0.252	3.212	1.00	32.86	SOLV
ATOM	5352	OH2	WAT	988	54.753	26.056	10.002	1.00	38.81	SOLV
ATOM	5353	OH2	WAT	989	70.048	9.771	7.245	1.00	34.40	SOLV
ATOM	5354	OH2	WAT	990	13.036	-3.205	5.412	1.00	35.83	SOLV
ATOM	5355	OH2	WAT	991	60.692	3.630	40.958	1.00	41.89	SOLV
ATOM	5356	OH2	WAT	992	70.390	-1.551	47.936	1.00	41.88	SOLV
ATOM	5357	OH2	WAT	993	39.843	1.713	-5.218	1.00	31.45	SOLV
ATOM	5358	OH2	WAT	994	36.720	25.735	1.015	1.00	42.15	SOLV
ATOM	5359	OH2	WAT	995	65.283	11.115	37.159	1.00	38.34	SOLV
ATOM	5360	OH2	WAT	996	70.103	26.026	9.667	1.00	39.19	SOLV
ATOM	5361	OH2	WAT	997	46.649	26.228	10.824	1.00	37.89	SOLV
ATOM	5362	OH2	WAT	998	56.181	4.932	63.234	1.00	41.30	SOLV
ATOM	5363	OH2	WAT	999	40.513	6.188	82.932	1.00	43.73	SOLV
ATOM	5364	OH2	WAT	1000	65.244	2.316	66.263	1.00	37.60	SOLV
ATOM	5365	OH2	WAT	1001	36.959	-9.800	16.393	1.00	30.70	SOLV
ATOM	5366	OH2	WAT	1002	72.545	24.795	16.062	1.00	39.28	SOLV
ATOM	5367	OH2	WAT	1003	61.435	-1.952	46.949	1.00	38.12	SOLV
ATOM	5368	OH2	WAT	1004	80.160	12.115	60.449	1.00	40.13	SOLV
ATOM	5369	OH2	WAT	1005	52.219	17.625	60.788	1.00	40.09	SOLV
ATOM	5370	OH2	WAT	1006	65.999	8.379	37.596	1.00	45.97	SOLV
ATOM	5371	OH2	WAT	1007	42.860	21.676	10.293	1.00	39.27	SOLV
ATOM	5372	OH2	WAT	1008	43.849	-11.392	3.241	1.00	34.04	SOLV
ATOM	5373	OH2	WAT	1009	72.718	22.124	16.534	1.00	40.51	SOLV
ATOM	5374	OH2	WAT	1010	62.882	23.007	16.843	1.00	36.51	SOLV
ATOM	5375	OH2	WAT	1011	49.271	3.620	1.916	1.00	47.65	SOLV
ATOM	5376	OH2	WAT	1012	55.009	3.669	76.369	1.00	48.63	SOLV
ATOM	5377	OH2	WAT	1013	52.568	8.831	43.157	1.00	40.92	SOLV
ATOM	5378	OH2	WAT	1014	43.520	-16.385	1.086	1.00	38.39	SOLV
ATOM	5379	OH2	WAT	1015	69.775	13.894	66.329	1.00	43.21	SOLV
ATOM	5380	OH2	WAT	1016	40.469	15.027	70.660	1.00	38.86	SOLV
ATOM	5381	OH2	WAT	1017	28.826	-14.041	3.076	1.00	31.84	SOLV
ATOM	5382	OH2	WAT	1018	73.247	15.833	62.672	1.00	39.99	SOLV
ATOM	5383	OH2	WAT	1019	72.087	12.362	63.411	1.00	30.23	SOLV
ATOM	5384	OH2	WAT	1020	15.701	4.888	2.633	1.00	39.47	SOLV
ATOM	5385	OH2	WAT	1021	45.457	-9.061	3.833	1.00	31.47	SOLV
ATOM	5386	OH2	WAT	1022	53.703	29.756	11.130	1.00	32.33	SOLV
ATOM	5387	OH2	WAT	1023	52.177	12.431	3.810	1.00	43.02	SOLV
ATOM	5388	OH2	WAT	1024	49.821	40.236	30.283	1.00	42.03	SOLV
ATOM	5389	OH2	WAT	1025	61.383	18.908	14.374	1.00	35.93	SOLV
ATOM	5390	OH2	WAT	1026	40.556	12.460	6.160	1.00	37.35	SOLV
ATOM	5391	OH2	WAT	1027	34.430	-12.166	6.964	1.00	31.67	SOLV
ATOM	5392	OH2	WAT	1028	76.760	15.252	50.000	1.00	41.55	SOLV
ATOM	5393	OH2	WAT	1029	64.082	9.157	8.550	1.00	46.37	SOLV
ATOM	5394	OH2	WAT	1030	46.911	-0.329	2.922	1.00	32.88	SOLV
ATOM	5395	OH2	WAT	1031	40.860	-3.391	15.918	1.00	37.44	SOLV
ATOM	5396	OH2	WAT	1032	13.484	-7.261	8.468	1.00	43.63	SOLV
ATOM	5397	OH2	WAT	1033	66.544	3.512	68.591	1.00	44.66	SOLV
ATOM	5398	OH2	WAT	1034	57.363	25.363	13.798	1.00	42.33	SOLV
ATOM	5399	C1	MPD	805	59.545	26.971	1.264	1.00	43.03	MPDS
ATOM	5400	C2	MPD	805	60.770	26.077	1.264	1.00	40.86	MPDS
ATOM	5401	C3	MPD	805	61.034	25.361	2.603	1.00	48.13	MPDS
ATOM	5402	C4	MPD	805	61.523	26.230	3.785	1.00	41.67	MPDS
ATOM	5403	C5	MPD	805	61.460	25.454	5.097	1.00	39.28	MPDS
ATOM	5404	CM	MPD	805	60.637	25.057	0.149	1.00	43.67	MPDS
ATOM	5405	O2	MPD	805	61.871	26.864	0.968	1.00	52.71	MPDS
ATOM	5406	O4	MPD	805	62.859	26.613	3.589	1.00	45.63	MPDS
ATOM	5407	C1	MPD	806	15.305	-4.631	1.658	1.00	53.52	MPDS
ATOM	5408	C2	MPD	806	16.679	-5.185	1.299	1.00	52.87	MPDS
ATOM	5409	C3	MPD	806	17.412	-5.877	2.465	1.00	44.72	MPDS
ATOM	5410	C4	MPD	806	17.608	-5.044	3.731	1.00	39.23	MPDS
ATOM	5411	C5	MPD	806	18.033	-5.935	4.884	1.00	31.52	MPDS

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ATOM   5412   CM  MPD   806      16.551  -6.162   0.139  1.00 52.04      MPDS
ATOM   5413   O2  MPD   806      17.459  -4.120   0.849  1.00 50.52      MPDS
ATOM   5414   O4  MPD   806      18.606  -4.047   3.525  1.00 38.87      MPDS
ATOM   5415 CA+2 CA2   801      45.871  -1.719   4.466  1.00 32.02      CALS
ATOM   5416 CA+2 CA2   802      64.416   9.550  38.893  1.00 48.20      CALS
ATOM   5417 CA+2 CA2   803      85.923  11.416   4.428  1.00 71.97      CALS
ATOM   5418 CA+2 CA2   804      32.602  26.989  49.375  1.00 89.65      CALS
END
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Figure 3

		Atom Type	Residue			X	Y	Z	OCC	B	MOL
ATOM	1	CB	TRP	A	1	19.999	0.274	9.635	1.00	27.19	A
ATOM	2	CG	TRP	A	1	21.045	-0.693	10.063	1.00	35.81	A
ATOM	3	CD2	TRP	A	1	22.153	-0.421	10.936	1.00	32.73	A
ATOM	4	CE2	TRP	A	1	22.916	-1.610	11.027	1.00	23.36	A
ATOM	5	CE3	TRP	A	1	22.578	0.712	11.644	1.00	26.51	A
ATOM	6	CD1	TRP	A	1	21.176	-1.999	9.670	1.00	34.06	A
ATOM	7	NE1	TRP	A	1	22.299	-2.556	10.245	1.00	28.56	A
ATOM	8	CZ2	TRP	A	1	24.076	-1.692	11.799	1.00	24.35	A
ATOM	9	CZ3	TRP	A	1	23.717	0.628	12.396	1.00	26.47	A
ATOM	10	CH2	TRP	A	1	24.457	-0.564	12.471	1.00	34.66	A
ATOM	11	C	TRP	A	1	18.680	-0.938	7.960	1.00	30.86	A
ATOM	12	O	TRP	A	1	18.933	-2.127	7.760	1.00	31.33	A
ATOM	13	N	TRP	A	1	18.369	-1.365	10.420	1.00	32.40	A
ATOM	14	CA	TRP	A	1	18.659	-0.367	9.366	1.00	32.78	A
ATOM	15	N	THR	A	2	18.428	-0.072	6.986	1.00	28.43	A
ATOM	16	CA	THR	A	2	18.426	-0.465	5.586	1.00	26.69	A
ATOM	17	CB	THR	A	2	17.559	0.466	4.720	1.00	24.56	A
ATOM	18	OG1	THR	A	2	18.140	1.774	4.705	1.00	32.62	A
ATOM	19	CG2	THR	A	2	16.156	0.577	5.271	1.00	23.28	A
ATOM	20	C	THR	A	2	19.844	-0.321	5.088	1.00	23.86	A
ATOM	21	O	THR	A	2	20.528	0.633	5.452	1.00	27.49	A
ATOM	22	N	TYR	A	3	20.279	-1.261	4.255	1.00	25.38	A
ATOM	23	CA	TYR	A	3	21.622	-1.226	3.684	1.00	22.34	A
ATOM	24	CB	TYR	A	3	22.199	-2.637	3.610	1.00	29.24	A
ATOM	25	CG	TYR	A	3	22.613	-3.149	4.968	1.00	32.84	A
ATOM	26	CD1	TYR	A	3	23.021	-2.257	5.956	1.00	22.54	A
ATOM	27	CE1	TYR	A	3	23.473	-2.690	7.191	1.00	26.80	A
ATOM	28	CD2	TYR	A	3	22.660	-4.508	5.250	1.00	28.30	A
ATOM	29	CE2	TYR	A	3	23.114	-4.959	6.484	1.00	29.26	A
ATOM	30	CZ	TYR	A	3	23.525	-4.036	7.455	1.00	28.60	A
ATOM	31	OH	TYR	A	3	24.017	-4.437	8.683	1.00	31.24	A
ATOM	32	C	TYR	A	3	21.536	-0.578	2.314	1.00	27.34	A
ATOM	33	O	TYR	A	3	20.520	-0.711	1.631	1.00	27.03	A
ATOM	34	N	HIS	A	4	22.595	0.131	1.927	1.00	26.20	A
ATOM	35	CA	HIS	A	4	22.615	0.878	0.668	1.00	25.26	A
ATOM	36	CB	HIS	A	4	22.024	2.273	0.904	1.00	19.61	A
ATOM	37	CG	HIS	A	4	20.597	2.281	1.378	1.00	21.16	A
ATOM	38	CD2	HIS	A	4	20.048	2.708	2.542	1.00	20.22	A
ATOM	39	ND1	HIS	A	4	19.541	1.890	0.582	1.00	18.53	A
ATOM	40	CE1	HIS	A	4	18.405	2.083	1.231	1.00	27.43	A
ATOM	41	NE2	HIS	A	4	18.684	2.580	2.422	1.00	22.63	A
ATOM	42	C	HIS	A	4	24.005	1.066	0.051	1.00	27.18	A
ATOM	43	O	HIS	A	4	24.952	1.405	0.754	1.00	24.93	A
ATOM	44	N	TYR	A	5	24.113	0.867	-1.265	1.00	21.94	A
ATOM	45	CA	TYR	A	5	25.392	1.042	-1.971	1.00	22.76	A
ATOM	46	CB	TYR	A	5	26.041	-0.307	-2.318	1.00	19.76	A
ATOM	47	CG	TYR	A	5	25.425	-1.070	-3.472	1.00	20.58	A
ATOM	48	CD1	TYR	A	5	24.358	-1.946	-3.272	1.00	19.83	A
ATOM	49	CE1	TYR	A	5	23.838	-2.714	-4.335	1.00	23.28	A
ATOM	50	CD2	TYR	A	5	25.955	-0.968	-4.757	1.00	16.72	A
ATOM	51	CE2	TYR	A	5	25.445	-1.725	-5.820	1.00	22.54	A
ATOM	52	CZ	TYR	A	5	24.388	-2.597	-5.606	1.00	17.98	A
ATOM	53	OH	TYR	A	5	23.893	-3.341	-6.658	1.00	31.89	A
ATOM	54	C	TYR	A	5	25.247	1.872	-3.253	1.00	28.08	A
ATOM	55	O	TYR	A	5	24.184	1.834	-3.905	1.00	31.60	A
ATOM	56	N	SER	A	6	26.311	2.622	-3.596	1.00	28.54	A
ATOM	57	CA	SER	A	6	26.335	3.481	-4.789	1.00	29.09	A
ATOM	58	CB	SER	A	6	27.172	4.754	-4.551	1.00	31.09	A
ATOM	59	OG	SER	A	6	28.555	4.507	-4.391	1.00	38.97	A
ATOM	60	C	SER	A	6	26.898	2.733	-5.971	1.00	34.17	A
ATOM	61	O	SER	A	6	27.856	1.999	-5.828	1.00	25.28	A
ATOM	62	N	THR	A	7	26.308	2.913	-7.143	1.00	28.38	A
ATOM	63	CA	THR	A	7	26.798	2.221	-8.317	1.00	26.72	A
ATOM	64	CB	THR	A	7	25.812	2.327	-9.458	1.00	31.58	A
ATOM	65	OG1	THR	A	7	26.083	3.501	-10.234	1.00	32.68	A

ATOM	66	CG2	THR	A	7	24.440	2.427	-8.906	1.00	22.24	A
ATOM	67	C	THR	A	7	28.152	2.753	-8.785	1.00	29.95	A
ATOM	68	O	THR	A	7	28.898	2.046	-9.446	1.00	32.49	A
ATOM	69	N	LYS	A	8	28.485	3.991	-8.451	1.00	29.61	A
ATOM	70	CA	LYS	A	8	29.767	4.534	-8.874	1.00	33.14	A
ATOM	71	CB	LYS	A	8	29.554	5.919	-9.494	1.00	34.69	A
ATOM	72	CG	LYS	A	8	28.996	5.906	-10.917	1.00	52.42	A
ATOM	73	CD	LYS	A	8	27.813	6.866	-11.109	1.00	64.94	A
ATOM	74	CE	LYS	A	8	28.177	8.366	-11.031	1.00	68.21	A
ATOM	75	NZ	LYS	A	8	26.944	9.261	-11.114	1.00	70.04	A
ATOM	76	C	LYS	A	8	30.738	4.621	-7.697	1.00	30.52	A
ATOM	77	O	LYS	A	8	30.335	4.956	-6.578	1.00	29.85	A
ATOM	78	N	ALA	A	9	32.013	4.321	-7.941	1.00	26.21	A
ATOM	79	CA	ALA	A	9	33.033	4.388	-6.879	1.00	29.05	A
ATOM	80	CB	ALA	A	9	34.214	3.485	-7.214	1.00	21.31	A
ATOM	81	C	ALA	A	9	33.527	5.826	-6.687	1.00	27.40	A
ATOM	82	O	ALA	A	9	33.901	6.489	-7.666	1.00	29.96	A
ATOM	83	N	TYR	A	10	33.542	6.299	-5.436	1.00	31.91	A
ATOM	84	CA	TYR	A	10	33.968	7.661	-5.144	1.00	31.61	A
ATOM	85	CB	TYR	A	10	32.776	8.510	-4.738	1.00	34.84	A
ATOM	86	CG	TYR	A	10	31.654	8.582	-5.738	1.00	36.61	A
ATOM	87	CD1	TYR	A	10	31.818	9.198	-6.985	1.00	35.67	A
ATOM	88	CE1	TYR	A	10	30.748	9.353	-7.849	1.00	32.31	A
ATOM	89	CD2	TYR	A	10	30.398	8.113	-5.399	1.00	33.74	A
ATOM	90	CE2	TYR	A	10	29.322	8.260	-6.250	1.00	41.13	A
ATOM	91	CZ	TYR	A	10	29.493	8.882	-7.464	1.00	38.48	A
ATOM	92	OH	TYR	A	10	28.367	9.057	-8.234	1.00	46.08	A
ATOM	93	C	TYR	A	10	34.971	7.741	-4.034	1.00	33.62	A
ATOM	94	O	TYR	A	10	35.146	6.791	-3.294	1.00	31.31	A
ATOM	95	N	SER	A	11	35.616	8.899	-3.919	1.00	33.28	A
ATOM	96	CA	SER	A	11	36.589	9.158	-2.857	1.00	30.09	A
ATOM	97	CB	SER	A	11	37.183	10.566	-3.006	1.00	37.59	A
ATOM	98	OG	SER	A	11	36.267	11.595	-2.643	1.00	42.01	A
ATOM	99	C	SER	A	11	35.878	9.022	-1.506	1.00	26.70	A
ATOM	100	O	SER	A	11	34.700	9.303	-1.382	1.00	21.78	A
ATOM	101	N	TRP	A	12	36.592	8.623	-0.475	1.00	21.84	A
ATOM	102	CA	TRP	A	12	35.940	8.404	0.805	1.00	28.44	A
ATOM	103	CB	TRP	A	12	36.933	8.172	1.926	1.00	29.59	A
ATOM	104	CG	TRP	A	12	36.269	7.685	3.150	1.00	32.83	A
ATOM	105	CD2	TRP	A	12	35.851	8.479	4.265	1.00	39.16	A
ATOM	106	CE2	TRP	A	12	35.270	7.603	5.203	1.00	34.94	A
ATOM	107	CE3	TRP	A	12	35.912	9.852	4.564	1.00	26.63	A
ATOM	108	CD1	TRP	A	12	35.932	6.400	3.441	1.00	30.33	A
ATOM	109	NE1	TRP	A	12	35.332	6.337	4.674	1.00	34.78	A
ATOM	110	CZ2	TRP	A	12	34.753	8.053	6.426	1.00	33.03	A
ATOM	111	CZ3	TRP	A	12	35.399	10.295	5.776	1.00	23.53	A
ATOM	112	CH2	TRP	A	12	34.828	9.396	6.689	1.00	35.98	A
ATOM	113	C	TRP	A	12	35.044	9.502	1.230	1.00	32.34	A
ATOM	114	O	TRP	A	12	34.104	9.265	1.974	1.00	34.34	A
ATOM	115	N	ASN	A	13	35.346	10.713	0.789	1.00	33.74	A
ATOM	116	CA	ASN	A	13	34.506	11.861	1.138	1.00	31.87	A
ATOM	117	CB	ASN	A	13	35.307	13.147	1.038	1.00	35.98	A
ATOM	118	CG	ASN	A	13	36.044	13.441	2.293	1.00	33.67	A
ATOM	119	OD1	ASN	A	13	35.468	13.958	3.248	1.00	32.38	A
ATOM	120	ND2	ASN	A	13	37.327	13.086	2.325	1.00	37.80	A
ATOM	121	C	ASN	A	13	33.281	11.953	0.244	1.00	27.34	A
ATOM	122	O	ASN	A	13	32.132	11.856	0.705	1.00	30.13	A
ATOM	123	N	ILE	A	14	33.531	12.145	-1.040	1.00	28.31	A
ATOM	124	CA	ILE	A	14	32.434	12.222	-1.953	1.00	29.43	A
ATOM	125	CB	ILE	A	14	32.929	12.100	-3.366	1.00	32.61	A
ATOM	126	CG2	ILE	A	14	31.749	11.923	-4.308	1.00	29.82	A
ATOM	127	CG1	ILE	A	14	33.795	13.313	-3.693	1.00	32.14	A
ATOM	128	CD1	ILE	A	14	34.153	13.425	-5.160	1.00	27.22	A
ATOM	129	C	ILE	A	14	31.479	11.080	-1.634	1.00	32.98	A
ATOM	130	O	ILE	A	14	30.264	11.183	-1.845	1.00	37.13	A
ATOM	131	N	SER	A	15	32.047	10.005	-1.095	1.00	25.69	A

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ATOM	132	CA	SER	A	15	31.294	8.816	-0.730	1.00	24.51	A
ATOM	133	CB	SER	A	15	32.234	7.652	-0.429	1.00	25.78	A
ATOM	134	OG	SER	A	15	33.124	7.399	-1.504	1.00	32.78	A
ATOM	135	C	SER	A	15	30.407	9.031	0.479	1.00	22.21	A
ATOM	136	O	SER	A	15	29.206	8.748	0.420	1.00	26.64	A
ATOM	137	N	ARG	A	16	30.980	9.521	1.577	1.00	19.34	A
ATOM	138	CA	ARG	A	16	30.169	9.708	2.762	1.00	25.90	A
ATOM	139	CB	ARG	A	16	31.001	10.136	3.954	1.00	30.79	A
ATOM	140	CG	ARG	A	16	30.162	10.164	5.223	1.00	31.98	A
ATOM	141	CD	ARG	A	16	30.882	10.773	6.410	1.00	28.67	A
ATOM	142	NE	ARG	A	16	30.074	10.700	7.624	1.00	31.62	A
ATOM	143	CZ	ARG	A	16	30.396	11.325	8.746	1.00	37.10	A
ATOM	144	NH1	ARG	A	16	31.496	12.060	8.781	1.00	24.80	A
ATOM	145	NH2	ARG	A	16	29.643	11.208	9.832	1.00	33.86	A
ATOM	146	C	ARG	A	16	29.098	10.738	2.502	1.00	34.72	A
ATOM	147	O	ARG	A	16	28.082	10.797	3.206	1.00	37.94	A
ATOM	148	N	ALA	A	17	29.325	11.558	1.482	1.00	31.11	A
ATOM	149	CA	ALA	A	17	28.349	12.584	1.140	1.00	27.84	A
ATOM	150	CB	ALA	A	17	28.914	13.547	0.087	1.00	29.63	A
ATOM	151	C	ALA	A	17	27.133	11.860	0.596	1.00	23.50	A
ATOM	152	O	ALA	A	17	26.011	12.067	1.071	1.00	25.99	A
ATOM	153	N	TYR	A	18	27.377	10.995	-0.387	1.00	29.63	A
ATOM	154	CA	TYR	A	18	26.324	10.223	-1.027	1.00	30.10	A
ATOM	155	CB	TYR	A	18	26.929	9.156	-1.932	1.00	28.53	A
ATOM	156	CG	TYR	A	18	25.931	8.314	-2.691	1.00	34.06	A
ATOM	157	CD1	TYR	A	18	25.138	7.372	-2.043	1.00	26.49	A
ATOM	158	CE1	TYR	A	18	24.303	6.536	-2.751	1.00	21.74	A
ATOM	159	CD2	TYR	A	18	25.846	8.401	-4.070	1.00	26.44	A
ATOM	160	CE2	TYR	A	18	25.014	7.570	-4.791	1.00	27.31	A
ATOM	161	CZ	TYR	A	18	24.251	6.637	-4.131	1.00	33.86	A
ATOM	162	OH	TYR	A	18	23.482	5.776	-4.871	1.00	24.83	A
ATOM	163	C	TYR	A	18	25.435	9.568	0.000	1.00	31.37	A
ATOM	164	O	TYR	A	18	24.226	9.474	-0.206	1.00	31.41	A
ATOM	165	N	CYS	A	19	26.026	9.114	1.103	1.00	29.17	A
ATOM	166	CA	CYS	A	19	25.240	8.458	2.141	1.00	31.59	A
ATOM	167	C	CYS	A	19	24.384	9.424	2.931	1.00	32.10	A
ATOM	168	O	CYS	A	19	23.233	9.109	3.236	1.00	30.12	A
ATOM	169	CB	CYS	A	19	26.134	7.689	3.115	1.00	24.81	A
ATOM	170	SG	CYS	A	19	26.969	6.204	2.457	1.00	29.26	A
ATOM	171	N	GLN	A	20	24.946	10.597	3.244	1.00	37.56	A
ATOM	172	CA	GLN	A	20	24.256	11.636	4.025	1.00	41.72	A
ATOM	173	CB	GLN	A	20	25.275	12.626	4.593	1.00	39.75	A
ATOM	174	CG	GLN	A	20	26.407	11.999	5.403	1.00	40.39	A
ATOM	175	CD	GLN	A	20	27.236	13.037	6.169	1.00	36.08	A
ATOM	176	OE1	GLN	A	20	27.663	14.052	5.606	1.00	34.35	A
ATOM	177	NE2	GLN	A	20	27.473	12.782	7.452	1.00	38.38	A
ATOM	178	C	GLN	A	20	23.138	12.419	3.313	1.00	37.17	A
ATOM	179	O	GLN	A	20	22.223	12.924	3.963	1.00	36.98	A
ATOM	180	N	ASN	A	21	23.201	12.520	1.990	1.00	32.19	A
ATOM	181	CA	ASN	A	21	22.180	13.235	1.240	1.00	35.46	A
ATOM	182	CB	ASN	A	21	22.742	13.711	-0.072	1.00	27.79	A
ATOM	183	CG	ASN	A	21	23.891	14.619	0.120	1.00	34.80	A
ATOM	184	OD1	ASN	A	21	24.705	14.819	-0.783	1.00	44.92	A
ATOM	185	ND2	ASN	A	21	23.978	15.198	1.313	1.00	35.32	A
ATOM	186	C	ASN	A	21	20.975	12.378	0.945	1.00	36.82	A
ATOM	187	O	ASN	A	21	19.852	12.885	0.868	1.00	40.14	A
ATOM	188	N	ARG	A	22	21.212	11.083	0.751	1.00	39.56	A
ATOM	189	CA	ARG	A	22	20.144	10.134	0.444	1.00	39.93	A
ATOM	190	CB	ARG	A	22	20.592	9.125	-0.604	1.00	36.07	A
ATOM	191	CG	ARG	A	22	20.730	9.622	-1.997	1.00	37.45	A
ATOM	192	CD	ARG	A	22	20.652	8.439	-2.930	1.00	44.31	A
ATOM	193	NE	ARG	A	22	21.126	8.782	-4.258	1.00	47.23	A
ATOM	194	CZ	ARG	A	22	22.324	9.311	-4.504	1.00	55.75	A
ATOM	195	NH1	ARG	A	22	23.170	9.557	-3.502	1.00	53.10	A
ATOM	196	NH2	ARG	A	22	22.674	9.602	-5.755	1.00	46.77	A
ATOM	197	C	ARG	A	22	19.719	9.327	1.645	1.00	40.95	A

ATOM	198	O	ARG	A	22	18.547	8.992	1.803	1.00	39.02	A
ATOM	199	N	TYR	A	23	20.689	8.996	2.482	1.00	40.09	A
ATOM	200	CA	TYR	A	23	20.417	8.165	3.629	1.00	37.23	A
ATOM	201	CB	TYR	A	23	21.111	6.824	3.414	1.00	29.61	A
ATOM	202	CG	TYR	A	23	20.918	6.292	1.993	1.00	22.87	A
ATOM	203	CD1	TYR	A	23	19.650	5.960	1.521	1.00	31.23	A
ATOM	204	CE1	TYR	A	23	19.458	5.505	0.225	1.00	23.98	A
ATOM	205	CD2	TYR	A	23	21.995	6.152	1.119	1.00	21.36	A
ATOM	206	CE2	TYR	A	23	21.806	5.701	-0.180	1.00	18.02	A
ATOM	207	CZ	TYR	A	23	20.532	5.378	-0.623	1.00	29.54	A
ATOM	208	OH	TYR	A	23	20.315	4.929	-1.912	1.00	25.31	A
ATOM	209	C	TYR	A	23	20.865	8.810	4.916	1.00	36.50	A
ATOM	210	O	TYR	A	23	20.614	9.999	5.136	1.00	40.03	A
ATOM	211	N	THR	A	24	21.525	8.021	5.760	1.00	32.32	A
ATOM	212	CA	THR	A	24	22.017	8.490	7.046	1.00	28.44	A
ATOM	213	CB	THR	A	24	21.732	7.482	8.120	1.00	27.83	A
ATOM	214	OG1	THR	A	24	20.324	7.308	8.241	1.00	29.40	A
ATOM	215	CG2	THR	A	24	22.259	7.953	9.419	1.00	23.67	A
ATOM	216	C	THR	A	24	23.509	8.749	7.053	1.00	31.34	A
ATOM	217	O	THR	A	24	23.949	9.862	7.299	1.00	34.65	A
ATOM	218	N	ASP	A	25	24.294	7.715	6.795	1.00	36.30	A
ATOM	219	CA	ASP	A	25	25.738	7.864	6.780	1.00	33.22	A
ATOM	220	CB	ASP	A	25	26.214	8.299	8.174	1.00	27.78	A
ATOM	221	CG	ASP	A	25	27.511	9.080	8.139	1.00	27.73	A
ATOM	222	OD1	ASP	A	25	28.557	8.500	7.806	1.00	24.66	A
ATOM	223	OD2	ASP	A	25	27.489	10.283	8.441	1.00	36.40	A
ATOM	224	C	ASP	A	25	26.330	6.515	6.390	1.00	33.58	A
ATOM	225	O	ASP	A	25	25.584	5.570	6.134	1.00	32.36	A
ATOM	226	N	LEU	A	26	27.659	6.433	6.325	1.00	31.27	A
ATOM	227	CA	LEU	A	26	28.352	5.190	5.987	1.00	26.54	A
ATOM	228	CB	LEU	A	26	29.843	5.423	6.091	1.00	27.94	A
ATOM	229	CG	LEU	A	26	30.379	6.443	5.107	1.00	35.58	A
ATOM	230	CD1	LEU	A	26	31.873	6.491	5.240	1.00	31.51	A
ATOM	231	CD2	LEU	A	26	30.017	6.055	3.710	1.00	23.17	A
ATOM	232	C	LEU	A	26	27.927	4.022	6.918	1.00	34.24	A
ATOM	233	O	LEU	A	26	27.877	4.198	8.144	1.00	30.40	A
ATOM	234	N	VAL	A	27	27.638	2.838	6.350	1.00	27.23	A
ATOM	235	CA	VAL	A	27	27.173	1.693	7.152	1.00	26.44	A
ATOM	236	CB	VAL	A	27	27.245	0.345	6.424	1.00	34.51	A
ATOM	237	CG1	VAL	A	27	26.684	0.481	5.060	1.00	42.29	A
ATOM	238	CG2	VAL	A	27	28.667	-0.152	6.365	1.00	26.38	A
ATOM	239	C	VAL	A	27	28.045	1.536	8.339	1.00	18.71	A
ATOM	240	O	VAL	A	27	29.262	1.661	8.234	1.00	21.27	A
ATOM	241	N	ALA	A	28	27.428	1.263	9.472	1.00	11.32	A
ATOM	242	CA	ALA	A	28	28.187	1.063	10.679	1.00	20.57	A
ATOM	243	CB	ALA	A	28	27.656	1.937	11.751	1.00	19.04	A
ATOM	244	C	ALA	A	28	27.934	-0.390	11.001	1.00	25.98	A
ATOM	245	O	ALA	A	28	26.786	-0.813	11.068	1.00	19.70	A
ATOM	246	N	ILE	A	29	29.001	-1.154	11.188	1.00	31.92	A
ATOM	247	CA	ILE	A	29	28.896	-2.579	11.478	1.00	28.48	A
ATOM	248	CB	ILE	A	29	30.101	-3.319	10.857	1.00	25.95	A
ATOM	249	CG2	ILE	A	29	30.243	-4.694	11.454	1.00	28.67	A
ATOM	250	CG1	ILE	A	29	29.940	-3.362	9.334	1.00	27.60	A
ATOM	251	CD1	ILE	A	29	31.093	-3.961	8.616	1.00	23.35	A
ATOM	252	C	ILE	A	29	28.791	-2.870	12.976	1.00	28.94	A
ATOM	253	O	ILE	A	29	29.325	-2.134	13.811	1.00	34.31	A
ATOM	254	N	GLN	A	30	28.098	-3.951	13.313	1.00	28.60	A
ATOM	255	CA	GLN	A	30	27.889	-4.325	14.716	1.00	31.26	A
ATOM	256	CB	GLN	A	30	26.402	-4.276	15.026	1.00	28.70	A
ATOM	257	CG	GLN	A	30	25.954	-2.960	15.508	1.00	27.93	A
ATOM	258	CD	GLN	A	30	24.509	-2.791	15.299	1.00	29.82	A
ATOM	259	OE1	GLN	A	30	23.875	-1.977	15.965	1.00	36.22	A
ATOM	260	NE2	GLN	A	30	23.955	-3.547	14.355	1.00	29.84	A
ATOM	261	C	GLN	A	30	28.404	-5.686	15.151	1.00	34.58	A
ATOM	262	O	GLN	A	30	29.043	-5.830	16.202	1.00	35.05	A
ATOM	263	N	ASN	A	31	28.078	-6.677	14.331	1.00	34.65	A

ATOM	264	CA	ASN	A	31	28.430	-8.064	14.567	1.00	30.14	A
ATOM	265	CB	ASN	A	31	27.263	-8.744	15.275	1.00	19.35	A
ATOM	266	CG	ASN	A	31	26.002	-8.625	14.496	1.00	28.83	A
ATOM	267	OD1	ASN	A	31	25.876	-9.223	13.442	1.00	31.67	A
ATOM	268	ND2	ASN	A	31	25.067	-7.829	14.987	1.00	22.35	A
ATOM	269	C	ASN	A	31	28.691	-8.760	13.233	1.00	25.40	A
ATOM	270	O	ASN	A	31	28.275	-8.272	12.171	1.00	25.19	A
ATOM	271	N	LYS	A	32	29.370	-9.906	13.302	1.00	20.46	A
ATOM	272	CA	LYS	A	32	29.697	-10.690	12.111	1.00	20.31	A
ATOM	273	CB	LYS	A	32	30.487	-11.948	12.502	1.00	29.50	A
ATOM	274	CG	LYS	A	32	31.604	-11.753	13.507	1.00	30.32	A
ATOM	275	CD	LYS	A	32	32.792	-11.004	12.950	1.00	33.07	A
ATOM	276	CE	LYS	A	32	34.039	-11.248	13.826	1.00	49.08	A
ATOM	277	NZ	LYS	A	32	33.869	-10.987	15.306	1.00	42.69	A
ATOM	278	C	LYS	A	32	28.438	-11.105	11.294	1.00	14.96	A
ATOM	279	O	LYS	A	32	28.514	-11.286	10.066	1.00	25.30	A
ATOM	280	N	ASN	A	33	27.301	-11.262	11.973	1.00	15.38	A
ATOM	281	CA	ASN	A	33	26.078	-11.638	11.307	1.00	24.04	A
ATOM	282	CB	ASN	A	33	24.915	-11.601	12.289	1.00	21.98	A
ATOM	283	CG	ASN	A	33	24.743	-12.900	13.058	1.00	29.22	A
ATOM	284	OD1	ASN	A	33	25.683	-13.695	13.212	1.00	26.54	A
ATOM	285	ND2	ASN	A	33	23.532	-13.114	13.566	1.00	32.35	A
ATOM	286	C	ASN	A	33	25.827	-10.666	10.178	1.00	24.89	A
ATOM	287	O	ASN	A	33	25.594	-11.071	9.048	1.00	24.46	A
ATOM	288	N	GLU	A	34	25.884	-9.374	10.481	1.00	25.56	A
ATOM	289	CA	GLU	A	34	25.655	-8.356	9.465	1.00	22.39	A
ATOM	290	CB	GLU	A	34	25.618	-6.973	10.084	1.00	22.99	A
ATOM	291	CG	GLU	A	34	25.512	-7.025	11.556	1.00	24.90	A
ATOM	292	CD	GLU	A	34	24.671	-5.922	12.086	1.00	32.03	A
ATOM	293	OE1	GLU	A	34	24.914	-4.772	11.666	1.00	26.74	A
ATOM	294	OE2	GLU	A	34	23.776	-6.197	12.922	1.00	35.12	A
ATOM	295	C	GLU	A	34	26.771	-8.441	8.452	1.00	26.15	A
ATOM	296	O	GLU	A	34	26.515	-8.470	7.254	1.00	24.94	A
ATOM	297	N	ILE	A	35	28.012	-8.491	8.917	1.00	22.80	A
ATOM	298	CA	ILE	A	35	29.109	-8.603	7.978	1.00	26.32	A
ATOM	299	CB	ILE	A	35	30.381	-8.976	8.681	1.00	15.50	A
ATOM	300	CG2	ILE	A	35	31.391	-9.470	7.687	1.00	18.69	A
ATOM	301	CG1	ILE	A	35	30.912	-7.765	9.420	1.00	20.88	A
ATOM	302	CD1	ILE	A	35	32.279	-7.984	10.009	1.00	20.48	A
ATOM	303	C	ILE	A	35	28.775	-9.677	6.950	1.00	29.31	A
ATOM	304	O	ILE	A	35	29.070	-9.569	5.762	1.00	29.11	A
ATOM	305	N	ASP	A	36	28.122	-10.711	7.436	1.00	27.96	A
ATOM	306	CA	ASP	A	36	27.721	-11.830	6.606	1.00	24.41	A
ATOM	307	CB	ASP	A	36	27.028	-12.874	7.473	1.00	27.30	A
ATOM	308	CG	ASP	A	36	26.753	-14.132	6.732	1.00	34.42	A
ATOM	309	OD1	ASP	A	36	25.562	-14.451	6.595	1.00	32.40	A
ATOM	310	OD2	ASP	A	36	27.719	-14.787	6.284	1.00	28.22	A
ATOM	311	C	ASP	A	36	26.788	-11.374	5.508	1.00	21.18	A
ATOM	312	O	ASP	A	36	27.156	-11.337	4.344	1.00	22.22	A
ATOM	313	N	TYR	A	37	25.570	-11.054	5.906	1.00	19.19	A
ATOM	314	CA	TYR	A	37	24.546	-10.577	5.003	1.00	18.15	A
ATOM	315	CB	TYR	A	37	23.558	-9.715	5.789	1.00	22.87	A
ATOM	316	CG	TYR	A	37	22.243	-9.420	5.110	1.00	29.58	A
ATOM	317	CD1	TYR	A	37	21.354	-10.432	4.830	1.00	29.27	A
ATOM	318	CE1	TYR	A	37	20.144	-10.173	4.249	1.00	27.56	A
ATOM	319	CD2	TYR	A	37	21.883	-8.125	4.785	1.00	24.87	A
ATOM	320	CE2	TYR	A	37	20.674	-7.851	4.199	1.00	29.31	A
ATOM	321	CZ	TYR	A	37	19.800	-8.883	3.929	1.00	29.18	A
ATOM	322	OH	TYR	A	37	18.579	-8.646	3.318	1.00	27.31	A
ATOM	323	C	TYR	A	37	25.197	-9.742	3.921	1.00	17.60	A
ATOM	324	O	TYR	A	37	25.052	-10.020	2.740	1.00	19.87	A
ATOM	325	N	LEU	A	38	25.932	-8.719	4.330	1.00	23.95	A
ATOM	326	CA	LEU	A	38	26.586	-7.830	3.375	1.00	23.33	A
ATOM	327	CB	LEU	A	38	27.498	-6.854	4.105	1.00	21.71	A
ATOM	328	CG	LEU	A	38	26.849	-5.799	4.995	1.00	28.93	A
ATOM	329	CD1	LEU	A	38	27.974	-4.902	5.373	1.00	21.95	A

ATOM	330	CD2	LEU	A	38	25.752	-4.991	4.316	1.00	23.59	A
ATOM	331	C	LEU	A	38	27.379	-8.542	2.276	1.00	24.45	A
ATOM	332	O	LEU	A	38	27.085	-8.369	1.087	1.00	22.76	A
ATOM	333	N	ASN	A	39	28.392	-9.314	2.668	1.00	20.63	A
ATOM	334	CA	ASN	A	39	29.191	-10.061	1.706	1.00	24.29	A
ATOM	335	CB	ASN	A	39	30.038	-11.109	2.415	1.00	11.67	A
ATOM	336	CG	ASN	A	39	31.292	-11.479	1.642	1.00	26.62	A
ATOM	337	OD1	ASN	A	39	32.135	-10.626	1.374	1.00	21.27	A
ATOM	338	ND2	ASN	A	39	31.430	-12.755	1.295	1.00	19.39	A
ATOM	339	C	ASN	A	39	28.235	-10.778	0.770	1.00	22.77	A
ATOM	340	O	ASN	A	39	28.462	-10.849	-0.436	1.00	18.30	A
ATOM	341	N	LYS	A	40	27.150	-11.305	1.328	1.00	21.94	A
ATOM	342	CA	LYS	A	40	26.177	-12.035	0.522	1.00	28.85	A
ATOM	343	CB	LYS	A	40	25.227	-12.874	1.399	1.00	37.25	A
ATOM	344	CG	LYS	A	40	25.429	-12.745	2.913	1.00	33.74	A
ATOM	345	CD	LYS	A	40	25.754	-14.085	3.593	1.00	46.89	A
ATOM	346	CE	LYS	A	40	24.583	-15.092	3.544	1.00	36.14	A
ATOM	347	NZ	LYS	A	40	24.948	-16.394	4.217	1.00	33.54	A
ATOM	348	C	LYS	A	40	25.340	-11.217	-0.435	1.00	27.79	A
ATOM	349	O	LYS	A	40	25.336	-11.520	-1.608	1.00	19.60	A
ATOM	350	N	VAL	A	41	24.642	-10.192	0.042	1.00	21.77	A
ATOM	351	CA	VAL	A	41	23.773	-9.394	-0.831	1.00	22.25	A
ATOM	352	CB	VAL	A	41	22.823	-8.507	-0.018	1.00	24.51	A
ATOM	353	CG1	VAL	A	41	21.890	-9.354	0.805	1.00	21.92	A
ATOM	354	CG2	VAL	A	41	23.618	-7.597	0.873	1.00	16.76	A
ATOM	355	C	VAL	A	41	24.417	-8.483	-1.863	1.00	26.40	A
ATOM	356	O	VAL	A	41	23.958	-8.404	-2.995	1.00	27.24	A
ATOM	357	N	LEU	A	42	25.472	-7.794	-1.454	1.00	21.88	A
ATOM	358	CA	LEU	A	42	26.175	-6.837	-2.299	1.00	19.27	A
ATOM	359	CB	LEU	A	42	27.172	-6.047	-1.461	1.00	14.90	A
ATOM	360	CG	LEU	A	42	26.577	-5.198	-0.342	1.00	23.93	A
ATOM	361	CD1	LEU	A	42	27.652	-4.763	0.612	1.00	17.72	A
ATOM	362	CD2	LEU	A	42	25.874	-4.003	-0.957	1.00	15.85	A
ATOM	363	C	LEU	A	42	26.907	-7.427	-3.471	1.00	17.17	A
ATOM	364	O	LEU	A	42	27.637	-8.403	-3.320	1.00	24.29	A
ATOM	365	N	PRO	A	43	26.748	-6.818	-4.659	1.00	23.28	A
ATOM	366	CD	PRO	A	43	26.114	-5.515	-4.865	1.00	18.45	A
ATOM	367	CA	PRO	A	43	27.386	-7.253	-5.900	1.00	19.98	A
ATOM	368	CB	PRO	A	43	26.831	-6.295	-6.916	1.00	24.00	A
ATOM	369	CG	PRO	A	43	26.781	-5.062	-6.135	1.00	20.07	A
ATOM	370	C	PRO	A	43	28.867	-7.072	-5.731	1.00	22.90	A
ATOM	371	O	PRO	A	43	29.297	-6.341	-4.865	1.00	20.95	A
ATOM	372	N	TYR	A	44	29.649	-7.726	-6.566	1.00	17.45	A
ATOM	373	CA	TYR	A	44	31.086	-7.626	-6.463	1.00	18.39	A
ATOM	374	CB	TYR	A	44	31.732	-8.929	-6.900	1.00	20.67	A
ATOM	375	CG	TYR	A	44	33.222	-8.813	-7.079	1.00	22.44	A
ATOM	376	CD1	TYR	A	44	34.083	-8.863	-5.987	1.00	26.47	A
ATOM	377	CE1	TYR	A	44	35.451	-8.731	-6.152	1.00	21.13	A
ATOM	378	CD2	TYR	A	44	33.770	-8.623	-8.336	1.00	26.73	A
ATOM	379	CE2	TYR	A	44	35.133	-8.482	-8.510	1.00	24.22	A
ATOM	380	CZ	TYR	A	44	35.963	-8.541	-7.421	1.00	26.89	A
ATOM	381	OH	TYR	A	44	37.314	-8.436	-7.614	1.00	24.88	A
ATOM	382	C	TYR	A	44	31.695	-6.519	-7.291	1.00	26.54	A
ATOM	383	O	TYR	A	44	31.475	-6.448	-8.508	1.00	21.32	A
ATOM	384	N	TYR	A	45	32.473	-5.671	-6.623	1.00	24.03	A
ATOM	385	CA	TYR	A	45	33.202	-4.591	-7.275	1.00	24.25	A
ATOM	386	CB	TYR	A	45	32.774	-3.234	-6.743	1.00	26.09	A
ATOM	387	CG	TYR	A	45	31.454	-2.764	-7.253	1.00	23.64	A
ATOM	388	CD1	TYR	A	45	31.217	-2.680	-8.606	1.00	22.50	A
ATOM	389	CE1	TYR	A	45	30.001	-2.235	-9.080	1.00	24.38	A
ATOM	390	CD2	TYR	A	45	30.435	-2.389	-6.374	1.00	19.98	A
ATOM	391	CE2	TYR	A	45	29.206	-1.944	-6.839	1.00	26.42	A
ATOM	392	CZ	TYR	A	45	29.006	-1.872	-8.193	1.00	23.74	A
ATOM	393	OH	TYR	A	45	27.817	-1.449	-8.694	1.00	28.38	A
ATOM	394	C	TYR	A	45	34.683	-4.802	-6.962	1.00	26.54	A
ATOM	395	O	TYR	A	45	35.073	-4.957	-5.807	1.00	29.12	A

ATOM	396	N	SER	A	46	35.503	-4.825	-8.001	1.00	24.53	A
ATOM	397	CA	SER	A	46	36.936	-5.005	-7.823	1.00	25.36	A
ATOM	398	CB	SER	A	46	37.658	-4.817	-9.162	1.00	22.13	A
ATOM	399	OG	SER	A	46	36.895	-3.998	-10.047	1.00	30.88	A
ATOM	400	C	SER	A	46	37.438	-3.976	-6.830	1.00	26.60	A
ATOM	401	O	SER	A	46	38.366	-4.225	-6.076	1.00	30.97	A
ATOM	402	N	SER	A	47	36.799	-2.815	-6.831	1.00	27.60	A
ATOM	403	CA	SER	A	47	37.180	-1.720	-5.960	1.00	27.03	A
ATOM	404	CB	SER	A	47	36.647	-0.410	-6.531	1.00	31.12	A
ATOM	405	OG	SER	A	47	37.268	-0.111	-7.775	1.00	33.87	A
ATOM	406	C	SER	A	47	36.724	-1.874	-4.523	1.00	26.90	A
ATOM	407	O	SER	A	47	37.151	-1.121	-3.668	1.00	29.50	A
ATOM	408	N	TYR	A	48	35.872	-2.851	-4.248	1.00	19.74	A
ATOM	409	CA	TYR	A	48	35.364	-3.072	-2.891	1.00	23.62	A
ATOM	410	CB	TYR	A	48	36.503	-3.507	-1.960	1.00	22.73	A
ATOM	411	CG	TYR	A	48	37.069	-4.869	-2.345	1.00	18.63	A
ATOM	412	CD1	TYR	A	48	36.260	-6.022	-2.301	1.00	21.71	A
ATOM	413	CE1	TYR	A	48	36.721	-7.251	-2.762	1.00	16.76	A
ATOM	414	CD2	TYR	A	48	38.358	-4.992	-2.850	1.00	19.98	A
ATOM	415	CE2	TYR	A	48	38.825	-6.210	-3.312	1.00	20.12	A
ATOM	416	CZ	TYR	A	48	38.007	-7.329	-3.272	1.00	25.15	A
ATOM	417	OH	TYR	A	48	38.462	-8.514	-3.790	1.00	23.65	A
ATOM	418	C	TYR	A	48	34.650	-1.834	-2.369	1.00	24.71	A
ATOM	419	O	TYR	A	48	34.588	-0.826	-3.060	1.00	17.86	A
ATOM	420	N	TYR	A	49	34.105	-1.900	-1.161	1.00	25.57	A
ATOM	421	CA	TYR	A	49	33.349	-0.771	-0.629	1.00	28.34	A
ATOM	422	CB	TYR	A	49	31.954	-1.231	-0.179	1.00	18.49	A
ATOM	423	CG	TYR	A	49	31.023	-1.831	-1.238	1.00	18.48	A
ATOM	424	CD1	TYR	A	49	31.477	-2.774	-2.154	1.00	19.79	A
ATOM	425	CE1	TYR	A	49	30.607	-3.447	-2.977	1.00	20.09	A
ATOM	426	CD2	TYR	A	49	29.658	-1.573	-1.203	1.00	16.07	A
ATOM	427	CE2	TYR	A	49	28.783	-2.245	-2.023	1.00	19.87	A
ATOM	428	CZ	TYR	A	49	29.260	-3.186	-2.902	1.00	25.50	A
ATOM	429	OH	TYR	A	49	28.380	-3.914	-3.665	1.00	22.15	A
ATOM	430	C	TYR	A	49	34.021	-0.111	0.546	1.00	32.60	A
ATOM	431	O	TYR	A	49	34.866	-0.716	1.179	1.00	34.30	A
ATOM	432	N	TRP	A	50	33.616	1.126	0.833	1.00	18.77	A
ATOM	433	CA	TRP	A	50	34.123	1.920	1.963	1.00	24.61	A
ATOM	434	CB	TRP	A	50	34.151	3.408	1.627	1.00	21.33	A
ATOM	435	CG	TRP	A	50	35.299	3.974	0.834	1.00	21.34	A
ATOM	436	CD2	TRP	A	50	36.706	3.831	1.094	1.00	22.73	A
ATOM	437	CE2	TRP	A	50	37.382	4.644	0.160	1.00	18.25	A
ATOM	438	CE3	TRP	A	50	37.458	3.101	2.024	1.00	18.76	A
ATOM	439	CD1	TRP	A	50	35.193	4.836	-0.213	1.00	12.29	A
ATOM	440	NE1	TRP	A	50	36.430	5.243	-0.621	1.00	12.82	A
ATOM	441	CZ2	TRP	A	50	38.777	4.753	0.123	1.00	19.45	A
ATOM	442	CZ3	TRP	A	50	38.843	3.209	1.989	1.00	20.41	A
ATOM	443	CH2	TRP	A	50	39.487	4.032	1.040	1.00	16.48	A
ATOM	444	C	TRP	A	50	33.113	1.794	3.090	1.00	16.26	A
ATOM	445	O	TRP	A	50	31.929	1.925	2.814	1.00	23.98	A
ATOM	446	N	ILE	A	51	33.552	1.561	4.333	1.00	16.53	A
ATOM	447	CA	ILE	A	51	32.613	1.480	5.468	1.00	22.25	A
ATOM	448	CB	ILE	A	51	32.656	0.103	6.208	1.00	27.04	A
ATOM	449	CG2	ILE	A	51	32.419	-1.009	5.221	1.00	25.45	A
ATOM	450	CG1	ILE	A	51	33.993	-0.109	6.914	1.00	25.37	A
ATOM	451	CD1	ILE	A	51	33.960	-1.186	7.977	1.00	36.54	A
ATOM	452	C	ILE	A	51	32.767	2.630	6.499	1.00	23.79	A
ATOM	453	O	ILE	A	51	33.816	3.291	6.599	1.00	20.82	A
ATOM	454	N	GLY	A	52	31.710	2.865	7.264	1.00	25.71	A
ATOM	455	CA	GLY	A	52	31.715	3.967	8.212	1.00	28.70	A
ATOM	456	C	GLY	A	52	32.480	3.949	9.521	1.00	28.80	A
ATOM	457	O	GLY	A	52	31.891	4.009	10.604	1.00	29.03	A
ATOM	458	N	ILE	A	53	33.794	3.905	9.438	1.00	24.45	A
ATOM	459	CA	ILE	A	53	34.568	3.913	10.644	1.00	21.31	A
ATOM	460	CB	ILE	A	53	34.962	2.508	11.077	1.00	30.40	A
ATOM	461	CG2	ILE	A	53	36.109	1.979	10.204	1.00	20.92	A

ATOM	462	CG1	ILE	A	53	35.442	2.538	12.525	1.00	31.81	A
ATOM	463	CD1	ILE	A	53	35.838	1.196	13.055	1.00	38.06	A
ATOM	464	C	ILE	A	53	35.836	4.648	10.352	1.00	25.57	A
ATOM	465	O	ILE	A	53	36.373	4.519	9.254	1.00	20.84	A
ATOM	466	N	ARG	A	54	36.316	5.411	11.333	1.00	25.83	A
ATOM	467	CA	ARG	A	54	37.571	6.154	11.225	1.00	32.81	A
ATOM	468	CB	ARG	A	54	37.314	7.614	10.863	1.00	32.40	A
ATOM	469	CG	ARG	A	54	36.778	7.772	9.482	1.00	33.95	A
ATOM	470	CD	ARG	A	54	37.726	7.086	8.547	1.00	32.14	A
ATOM	471	NE	ARG	A	54	38.914	7.888	8.320	1.00	36.91	A
ATOM	472	CZ	ARG	A	54	38.884	9.058	7.701	1.00	36.62	A
ATOM	473	NH1	ARG	A	54	37.726	9.537	7.272	1.00	36.95	A
ATOM	474	NH2	ARG	A	54	40.000	9.732	7.473	1.00	27.29	A
ATOM	475	C	ARG	A	54	38.290	6.065	12.558	1.00	36.33	A
ATOM	476	O	ARG	A	54	37.703	5.625	13.547	1.00	39.11	A
ATOM	477	N	LYS	A	55	39.547	6.504	12.586	1.00	39.58	A
ATOM	478	CA	LYS	A	55	40.358	6.439	13.801	1.00	48.95	A
ATOM	479	CB	LYS	A	55	41.654	5.718	13.465	1.00	49.24	A
ATOM	480	CG	LYS	A	55	42.560	5.357	14.619	1.00	55.00	A
ATOM	481	CD	LYS	A	55	43.871	4.840	14.020	1.00	53.76	A
ATOM	482	CE	LYS	A	55	44.843	4.313	15.057	1.00	58.69	A
ATOM	483	NZ	LYS	A	55	46.099	3.855	14.379	1.00	61.35	A
ATOM	484	C	LYS	A	55	40.672	7.785	14.474	1.00	57.89	A
ATOM	485	O	LYS	A	55	41.488	8.570	13.978	1.00	59.93	A
ATOM	486	N	ASN	A	56	40.002	8.045	15.599	1.00	66.04	A
ATOM	487	CA	ASN	A	56	40.220	9.262	16.384	1.00	73.18	A
ATOM	488	CB	ASN	A	56	38.928	9.797	17.018	1.00	73.57	A
ATOM	489	CG	ASN	A	56	37.796	9.964	16.019	1.00	78.99	A
ATOM	490	OD1	ASN	A	56	38.025	10.126	14.816	1.00	81.41	A
ATOM	491	ND2	ASN	A	56	36.557	9.942	16.519	1.00	85.84	A
ATOM	492	C	ASN	A	56	41.112	8.747	17.489	1.00	72.65	A
ATOM	493	O	ASN	A	56	40.832	7.693	18.067	1.00	72.63	A
ATOM	494	N	ASN	A	57	42.166	9.489	17.800	1.00	75.42	A
ATOM	495	CA	ASN	A	57	43.110	9.048	18.818	1.00	74.67	A
ATOM	496	CB	ASN	A	57	42.390	8.641	20.116	1.00	76.33	A
ATOM	497	CG	ASN	A	57	41.467	9.734	20.657	1.00	75.38	A
ATOM	498	OD1	ASN	A	57	40.342	9.923	20.172	1.00	72.11	A
ATOM	499	ND2	ASN	A	57	41.943	10.459	21.669	1.00	70.52	A
ATOM	500	C	ASN	A	57	43.751	7.819	18.178	1.00	72.58	A
ATOM	501	O	ASN	A	57	44.323	7.901	17.088	1.00	73.68	A
ATOM	502	N	LYS	A	58	43.650	6.680	18.850	1.00	67.59	A
ATOM	503	CA	LYS	A	58	44.186	5.444	18.304	1.00	66.97	A
ATOM	504	CB	LYS	A	58	45.319	4.916	19.189	1.00	69.29	A
ATOM	505	CG	LYS	A	58	46.221	3.892	18.503	1.00	78.01	A
ATOM	506	CD	LYS	A	58	47.073	3.135	19.523	1.00	80.13	A
ATOM	507	CE	LYS	A	58	48.240	2.370	18.881	1.00	82.31	A
ATOM	508	NZ	LYS	A	58	49.452	3.209	18.591	1.00	76.81	A
ATOM	509	C	LYS	A	58	43.007	4.463	18.283	1.00	61.04	A
ATOM	510	O	LYS	A	58	43.148	3.313	17.882	1.00	61.18	A
ATOM	511	N	THR	A	59	41.844	4.965	18.698	1.00	55.43	A
ATOM	512	CA	THR	A	59	40.593	4.213	18.786	1.00	51.34	A
ATOM	513	CB	THR	A	59	39.781	4.730	20.004	1.00	53.34	A
ATOM	514	OG1	THR	A	59	40.632	4.799	21.154	1.00	55.62	A
ATOM	515	CG2	THR	A	59	38.612	3.817	20.320	1.00	40.41	A
ATOM	516	C	THR	A	59	39.706	4.332	17.525	1.00	48.38	A
ATOM	517	O	THR	A	59	39.309	5.442	17.151	1.00	51.52	A
ATOM	518	N	TRP	A	60	39.384	3.200	16.882	1.00	43.27	A
ATOM	519	CA	TRP	A	60	38.530	3.224	15.686	1.00	36.21	A
ATOM	520	CB	TRP	A	60	38.629	1.925	14.889	1.00	34.97	A
ATOM	521	CG	TRP	A	60	39.945	1.717	14.247	1.00	25.27	A
ATOM	522	CD2	TRP	A	60	40.335	2.096	12.917	1.00	26.43	A
ATOM	523	CE2	TRP	A	60	41.704	1.772	12.773	1.00	14.87	A
ATOM	524	CE3	TRP	A	60	39.661	2.680	11.830	1.00	20.35	A
ATOM	525	CD1	TRP	A	60	41.046	1.193	14.828	1.00	22.64	A
ATOM	526	NE1	TRP	A	60	42.115	1.218	13.955	1.00	27.92	A
ATOM	527	CZ2	TRP	A	60	42.418	2.016	11.590	1.00	15.53	A

ATOM	528	CZ3	TRP	A	60	40.370	2.920	10.647	1.00	13.58	A
ATOM	529	CH2	TRP	A	60	41.734	2.587	10.542	1.00	25.43	A
ATOM	530	C	TRP	A	60	37.074	3.477	16.049	1.00	31.75	A
ATOM	531	O	TRP	A	60	36.514	2.830	16.933	1.00	30.74	A
ATOM	532	N	THR	A	61	36.457	4.413	15.337	1.00	30.68	A
ATOM	533	CA	THR	A	61	35.070	4.799	15.606	1.00	28.63	A
ATOM	534	CB	THR	A	61	35.056	6.160	16.333	1.00	28.28	A
ATOM	535	OG1	THR	A	61	36.093	6.164	17.326	1.00	40.04	A
ATOM	536	CG2	THR	A	61	33.708	6.415	17.008	1.00	23.12	A
ATOM	537	C	THR	A	61	34.179	4.897	14.356	1.00	29.44	A
ATOM	538	O	THR	A	61	34.627	5.355	13.306	1.00	36.20	A
ATOM	539	N	TRP	A	62	32.924	4.463	14.482	1.00	27.10	A
ATOM	540	CA	TRP	A	62	31.957	4.519	13.385	1.00	35.64	A
ATOM	541	CB	TRP	A	62	30.838	3.513	13.633	1.00	33.30	A
ATOM	542	CG	TRP	A	62	31.348	2.147	13.861	1.00	37.40	A
ATOM	543	CD2	TRP	A	62	31.753	1.209	12.860	1.00	34.14	A
ATOM	544	CE2	TRP	A	62	32.258	0.084	13.525	1.00	35.16	A
ATOM	545	CE3	TRP	A	62	31.738	1.215	11.466	1.00	35.70	A
ATOM	546	CD1	TRP	A	62	31.605	1.569	15.053	1.00	36.50	A
ATOM	547	NE1	TRP	A	62	32.156	0.325	14.867	1.00	34.80	A
ATOM	548	CZ2	TRP	A	62	32.744	-1.019	12.850	1.00	31.61	A
ATOM	549	CZ3	TRP	A	62	32.221	0.117	10.800	1.00	32.90	A
ATOM	550	CH2	TRP	A	62	32.718	-0.984	11.490	1.00	31.81	A
ATOM	551	C	TRP	A	62	31.379	5.939	13.302	1.00	40.45	A
ATOM	552	O	TRP	A	62	30.817	6.445	14.278	1.00	41.81	A
ATOM	553	N	VAL	A	63	31.490	6.566	12.132	1.00	39.88	A
ATOM	554	CA	VAL	A	63	31.051	7.948	11.961	1.00	34.24	A
ATOM	555	CB	VAL	A	63	31.591	8.546	10.640	1.00	23.01	A
ATOM	556	CG1	VAL	A	63	33.081	8.302	10.515	1.00	29.15	A
ATOM	557	CG2	VAL	A	63	30.863	7.966	9.481	1.00	19.52	A
ATOM	558	C	VAL	A	63	29.558	8.238	12.031	1.00	36.75	A
ATOM	559	O	VAL	A	63	29.164	9.408	12.062	1.00	34.90	A
ATOM	560	N	GLY	A	64	28.726	7.202	12.070	1.00	34.92	A
ATOM	561	CA	GLY	A	64	27.287	7.428	12.129	1.00	39.81	A
ATOM	562	C	GLY	A	64	26.682	7.093	13.475	1.00	42.33	A
ATOM	563	O	GLY	A	64	25.875	7.850	14.022	1.00	42.26	A
ATOM	564	N	THR	A	65	27.064	5.929	13.988	1.00	41.33	A
ATOM	565	CA	THR	A	65	26.613	5.453	15.279	1.00	35.80	A
ATOM	566	CB	THR	A	65	26.954	3.980	15.465	1.00	35.99	A
ATOM	567	OG1	THR	A	65	28.231	3.701	14.878	1.00	33.22	A
ATOM	568	CG2	THR	A	65	25.919	3.123	14.827	1.00	21.00	A
ATOM	569	C	THR	A	65	27.369	6.253	16.323	1.00	40.75	A
ATOM	570	O	THR	A	65	26.860	6.502	17.423	1.00	43.56	A
ATOM	571	N	LYS	A	66	28.583	6.660	15.951	1.00	34.75	A
ATOM	572	CA	LYS	A	66	29.463	7.445	16.811	1.00	47.75	A
ATOM	573	CB	LYS	A	66	28.677	8.588	17.474	1.00	53.51	A
ATOM	574	CG	LYS	A	66	29.218	9.985	17.195	1.00	58.66	A
ATOM	575	CD	LYS	A	66	29.189	10.349	15.704	1.00	63.14	A
ATOM	576	CE	LYS	A	66	29.813	11.742	15.405	1.00	64.96	A
ATOM	577	NZ	LYS	A	66	29.934	12.034	13.924	1.00	61.62	A
ATOM	578	C	LYS	A	66	30.050	6.506	17.859	1.00	50.85	A
ATOM	579	O	LYS	A	66	30.822	6.920	18.725	1.00	57.90	A
ATOM	580	N	LYS	A	67	29.686	5.227	17.757	1.00	47.42	A
ATOM	581	CA	LYS	A	67	30.154	4.211	18.695	1.00	42.11	A
ATOM	582	CB	LYS	A	67	29.265	2.955	18.642	1.00	38.77	A
ATOM	583	CG	LYS	A	67	27.783	3.183	18.973	1.00	37.68	A
ATOM	584	CD	LYS	A	67	27.029	1.859	19.204	1.00	36.59	A
ATOM	585	CE	LYS	A	67	25.491	2.015	19.356	1.00	41.87	A
ATOM	586	NZ	LYS	A	67	24.977	2.524	20.671	1.00	51.97	A
ATOM	587	C	LYS	A	67	31.604	3.815	18.455	1.00	39.40	A
ATOM	588	O	LYS	A	67	32.236	4.249	17.499	1.00	38.88	A
ATOM	589	N	ALA	A	68	32.122	2.976	19.338	1.00	32.73	A
ATOM	590	CA	ALA	A	68	33.494	2.535	19.254	1.00	29.74	A
ATOM	591	CB	ALA	A	68	34.146	2.669	20.597	1.00	25.59	A
ATOM	592	C	ALA	A	68	33.502	1.095	18.814	1.00	31.57	A
ATOM	593	O	ALA	A	68	32.542	0.359	19.054	1.00	34.19	A

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ATOM	594	N	LEU	A	69	34.598	0.692	18.181	1.00	28.36	A
ATOM	595	CA	LEU	A	69	34.729	-0.668	17.669	1.00	36.07	A
ATOM	596	CB	LEU	A	69	36.012	-0.796	16.850	1.00	29.75	A
ATOM	597	CG	LEU	A	69	36.079	-2.030	15.961	1.00	27.97	A
ATOM	598	CD1	LEU	A	69	34.849	-2.110	15.104	1.00	23.66	A
ATOM	599	CD2	LEU	A	69	37.316	-1.979	15.106	1.00	25.37	A
ATOM	600	C	LEU	A	69	34.706	-1.716	18.770	1.00	38.16	A
ATOM	601	O	LEU	A	69	35.340	-1.549	19.821	1.00	42.05	A
ATOM	602	N	THR	A	70	33.964	-2.791	18.510	1.00	37.87	A
ATOM	603	CA	THR	A	70	33.815	-3.902	19.447	1.00	39.42	A
ATOM	604	CB	THR	A	70	32.309	-4.207	19.696	1.00	40.64	A
ATOM	605	OG1	THR	A	70	31.663	-4.539	18.467	1.00	35.56	A
ATOM	606	CG2	THR	A	70	31.614	-3.003	20.261	1.00	34.45	A
ATOM	607	C	THR	A	70	34.509	-5.173	18.935	1.00	44.33	A
ATOM	608	O	THR	A	70	34.841	-5.256	17.756	1.00	44.17	A
ATOM	609	N	ASN	A	71	34.742	-6.152	19.814	1.00	43.30	A
ATOM	610	CA	ASN	A	71	35.363	-7.416	19.399	1.00	43.56	A
ATOM	611	CB	ASN	A	71	35.764	-8.262	20.586	1.00	44.25	A
ATOM	612	CG	ASN	A	71	37.126	-7.930	21.078	1.00	49.66	A
ATOM	613	OD1	ASN	A	71	38.068	-7.809	20.285	1.00	45.90	A
ATOM	614	ND2	ASN	A	71	37.261	-7.783	22.396	1.00	45.29	A
ATOM	615	C	ASN	A	71	34.386	-8.221	18.580	1.00	39.73	A
ATOM	616	O	ASN	A	71	34.746	-9.230	17.981	1.00	36.69	A
ATOM	617	N	GLU	A	72	33.133	-7.781	18.598	1.00	34.19	A
ATOM	618	CA	GLU	A	72	32.061	-8.405	17.841	1.00	40.96	A
ATOM	619	CB	GLU	A	72	30.707	-8.012	18.454	1.00	45.34	A
ATOM	620	CG	GLU	A	72	30.325	-8.722	19.780	1.00	50.21	A
ATOM	621	CD	GLU	A	72	31.303	-8.490	20.926	1.00	64.95	A
ATOM	622	OE1	GLU	A	72	31.486	-7.327	21.329	1.00	64.69	A
ATOM	623	OE2	GLU	A	72	31.885	-9.474	21.432	1.00	67.92	A
ATOM	624	C	GLU	A	72	32.169	-7.894	16.394	1.00	40.94	A
ATOM	625	O	GLU	A	72	32.039	-8.644	15.435	1.00	42.65	A
ATOM	626	N	ALA	A	73	32.443	-6.605	16.259	1.00	37.70	A
ATOM	627	CA	ALA	A	73	32.564	-5.968	14.961	1.00	30.89	A
ATOM	628	CB	ALA	A	73	32.214	-4.511	15.086	1.00	43.30	A
ATOM	629	C	ALA	A	73	33.952	-6.107	14.358	1.00	30.95	A
ATOM	630	O	ALA	A	73	34.088	-6.327	13.155	1.00	30.34	A
ATOM	631	N	GLU	A	74	34.980	-5.945	15.182	1.00	25.97	A
ATOM	632	CA	GLU	A	74	36.351	-6.061	14.713	1.00	22.18	A
ATOM	633	CB	GLU	A	74	37.251	-6.459	15.869	1.00	26.95	A
ATOM	634	CG	GLU	A	74	38.709	-6.374	15.545	1.00	32.30	A
ATOM	635	CD	GLU	A	74	39.103	-7.279	14.402	1.00	32.43	A
ATOM	636	OE1	GLU	A	74	39.198	-8.503	14.636	1.00	41.13	A
ATOM	637	OE2	GLU	A	74	39.308	-6.771	13.274	1.00	32.50	A
ATOM	638	C	GLU	A	74	36.384	-7.153	13.665	1.00	32.51	A
ATOM	639	O	GLU	A	74	35.890	-8.251	13.914	1.00	24.47	A
ATOM	640	N	ASN	A	75	36.953	-6.878	12.497	1.00	34.32	A
ATOM	641	CA	ASN	A	75	37.007	-7.899	11.448	1.00	26.30	A
ATOM	642	CB	ASN	A	75	35.654	-7.977	10.752	1.00	27.33	A
ATOM	643	CG	ASN	A	75	35.384	-9.342	10.189	1.00	32.35	A
ATOM	644	OD1	ASN	A	75	35.257	-10.311	10.944	1.00	31.92	A
ATOM	645	ND2	ASN	A	75	35.308	-9.444	8.856	1.00	25.16	A
ATOM	646	C	ASN	A	75	38.113	-7.635	10.415	1.00	24.20	A
ATOM	647	O	ASN	A	75	37.979	-7.922	9.223	1.00	27.61	A
ATOM	648	N	TRP	A	76	39.212	-7.081	10.901	1.00	24.49	A
ATOM	649	CA	TRP	A	76	40.354	-6.750	10.079	1.00	27.33	A
ATOM	650	CB	TRP	A	76	41.469	-6.218	10.975	1.00	28.33	A
ATOM	651	CG	TRP	A	76	41.185	-4.880	11.511	1.00	28.47	A
ATOM	652	CD2	TRP	A	76	41.038	-3.686	10.749	1.00	31.07	A
ATOM	653	CE2	TRP	A	76	40.756	-2.646	11.653	1.00	29.25	A
ATOM	654	CE3	TRP	A	76	41.118	-3.395	9.377	1.00	24.34	A
ATOM	655	CD1	TRP	A	76	40.993	-4.533	12.811	1.00	30.52	A
ATOM	656	NE1	TRP	A	76	40.733	-3.187	12.911	1.00	33.51	A
ATOM	657	CZ2	TRP	A	76	40.553	-1.342	11.236	1.00	38.23	A
ATOM	658	CZ3	TRP	A	76	40.917	-2.102	8.964	1.00	35.01	A
ATOM	659	CH2	TRP	A	76	40.638	-1.088	9.888	1.00	30.99	A

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ATOM    660  C   TRP A  76      40.885  -7.910   9.271  1.00 25.32      A
ATOM    661  O   TRP A  76      41.028  -9.013   9.790  1.00 28.18      A
ATOM    662  N   ALA A  77      41.193  -7.662   8.006  1.00 21.40      A
ATOM    663  CA  ALA A  77      41.767  -8.697   7.157  1.00 21.14      A
ATOM    664  CB  ALA A  77      42.055  -8.133   5.796  1.00 20.43      A
ATOM    665  C   ALA A  77      43.066  -9.177   7.805  1.00 31.57      A
ATOM    666  O   ALA A  77      43.517  -8.595   8.785  1.00 32.32      A
ATOM    667  N   ASP A  78      43.676 -10.231   7.281  1.00 34.34      A
ATOM    668  CA  ASP A  78      44.926 -10.708   7.875  1.00 32.55      A
ATOM    669  CB  ASP A  78      45.397 -12.019   7.212  1.00 32.53      A
ATOM    670  CG  ASP A  78      44.784 -13.286   7.844  1.00 33.11      A
ATOM    671  OD1 ASP A  78      44.987 -14.373   7.252  1.00 34.15      A
ATOM    672  OD2 ASP A  78      44.122 -13.209   8.915  1.00 30.01      A
ATOM    673  C   ASP A  78      46.019  -9.654   7.724  1.00 35.74      A
ATOM    674  O   ASP A  78      46.394  -9.309   6.601  1.00 34.82      A
ATOM    675  N   ASN A  79      46.500  -9.144   8.863  1.00 36.77      A
ATOM    676  CA  ASN A  79      47.582  -8.136   8.951  1.00 39.03      A
ATOM    677  CB  ASN A  79      48.573  -8.313   7.781  1.00 38.66      A
ATOM    678  CG  ASN A  79      49.477  -9.528   7.953  1.00 44.98      A
ATOM    679  OD1 ASN A  79      49.892 -10.138   6.971  1.00 46.47      A
ATOM    680  ND2 ASN A  79      49.796  -9.872   9.208  1.00 41.00      A
ATOM    681  C   ASN A  79      47.150  -6.659   9.038  1.00 37.95      A
ATOM    682  O   ASN A  79      47.905  -5.793   9.501  1.00 37.95      A
ATOM    683  N   GLU A  80      45.933  -6.382   8.594  1.00 31.33      A
ATOM    684  CA  GLU A  80      45.402  -5.040   8.609  1.00 32.68      A
ATOM    685  CB  GLU A  80      44.280  -4.934   7.590  1.00 34.51      A
ATOM    686  CG  GLU A  80      44.730  -5.272   6.201  1.00 33.99      A
ATOM    687  CD  GLU A  80      45.722  -4.268   5.693  1.00 37.99      A
ATOM    688  OE1 GLU A  80      46.324  -3.571   6.530  1.00 38.46      A
ATOM    689  OE2 GLU A  80      45.908  -4.177   4.465  1.00 30.64      A
ATOM    690  C   GLU A  80      44.883  -4.712   9.988  1.00 31.18      A
ATOM    691  O   GLU A  80      44.467  -5.600  10.738  1.00 27.96      A
ATOM    692  N   PRO A  81      44.904  -3.423  10.349  1.00 32.12      A
ATOM    693  CD  PRO A  81      44.136  -2.922  11.501  1.00 33.21      A
ATOM    694  CA  PRO A  81      45.389  -2.313   9.521  1.00 27.95      A
ATOM    695  CB  PRO A  81      44.619  -1.119  10.069  1.00 37.34      A
ATOM    696  CG  PRO A  81      44.479  -1.457  11.508  1.00 35.48      A
ATOM    697  C   PRO A  81      46.907  -2.121   9.543  1.00 32.90      A
ATOM    698  O   PRO A  81      47.555  -2.219  10.595  1.00 36.09      A
ATOM    699  N   ASN A  82      47.450  -1.816   8.360  1.00 35.00      A
ATOM    700  CA  ASN A  82      48.894  -1.651   8.134  1.00 35.12      A
ATOM    701  CB  ASN A  82      49.337  -2.638   7.074  1.00 29.11      A
ATOM    702  CG  ASN A  82      48.827  -2.256   5.713  1.00 29.57      A
ATOM    703  OD1 ASN A  82      47.720  -1.751   5.581  1.00 33.82      A
ATOM    704  ND2 ASN A  82      49.626  -2.493   4.693  1.00 32.09      A
ATOM    705  C   ASN A  82      49.366  -0.270   7.682  1.00 37.85      A
ATOM    706  O   ASN A  82      50.508  -0.126   7.231  1.00 38.34      A
ATOM    707  N   ASN A  83      48.495   0.730   7.756  1.00 36.46      A
ATOM    708  CA  ASN A  83      48.872   2.089   7.369  1.00 44.30      A
ATOM    709  CB  ASN A  83      47.840   2.716   6.418  1.00 34.15      A
ATOM    710  CG  ASN A  83      47.536   1.842   5.205  1.00 40.78      A
ATOM    711  OD1 ASN A  83      48.444   1.407   4.476  1.00 34.22      A
ATOM    712  ND2 ASN A  83      46.247   1.593   4.974  1.00 36.44      A
ATOM    713  C   ASN A  83      48.915   2.902   8.656  1.00 49.16      A
ATOM    714  O   ASN A  83      48.275   2.535   9.663  1.00 50.81      A
ATOM    715  N   LYS A  84      49.666   4.001   8.621  1.00 50.98      A
ATOM    716  CA  LYS A  84      49.813   4.902   9.780  1.00 53.66      A
ATOM    717  CB  LYS A  84      51.266   4.855  10.289  1.00 52.47      A
ATOM    718  CG  LYS A  84      52.272   4.896   9.120  1.00 57.10      A
ATOM    719  CD  LYS A  84      53.710   5.198   9.530  1.00 63.02      A
ATOM    720  CE  LYS A  84      54.594   5.318   8.282  1.00 56.23      A
ATOM    721  NZ  LYS A  84      55.967   5.832   8.579  1.00 51.60      A
ATOM    722  C   LYS A  84      49.456   6.349   9.371  1.00 49.79      A
ATOM    723  O   LYS A  84      48.800   7.088  10.132  1.00 46.60      A
ATOM    724  N   ARG A  85      49.890   6.716   8.156  1.00 46.75      A
ATOM    725  CA  ARG A  85      49.696   8.040   7.573  1.00 41.10      A
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4GS4, 4GS5, 4GS6

ATOM	726	CB	ARG	A	85	50.228	8.028	6.141	1.00	41.36	A
ATOM	727	CG	ARG	A	85	51.529	7.245	6.043	1.00	43.92	A
ATOM	728	CD	ARG	A	85	52.383	7.622	4.828	1.00	54.08	A
ATOM	729	NE	ARG	A	85	53.707	6.993	4.878	1.00	65.89	A
ATOM	730	CZ	ARG	A	85	54.762	7.392	4.168	1.00	72.17	A
ATOM	731	NH1	ARG	A	85	54.665	8.427	3.339	1.00	71.10	A
ATOM	732	NH2	ARG	A	85	55.924	6.763	4.301	1.00	69.17	A
ATOM	733	C	ARG	A	85	48.266	8.606	7.614	1.00	43.12	A
ATOM	734	O	ARG	A	85	47.261	7.864	7.665	1.00	36.82	A
ATOM	735	N	ASN	A	86	48.202	9.938	7.612	1.00	37.16	A
ATOM	736	CA	ASN	A	86	46.952	10.695	7.654	1.00	38.03	A
ATOM	737	CB	ASN	A	86	47.279	12.186	7.887	1.00	39.86	A
ATOM	738	CG	ASN	A	86	46.056	13.100	7.790	1.00	50.87	A
ATOM	739	OD1	ASN	A	86	45.146	13.022	8.614	1.00	50.52	A
ATOM	740	ND2	ASN	A	86	46.041	13.980	6.781	1.00	43.06	A
ATOM	741	C	ASN	A	86	46.278	10.520	6.307	1.00	35.89	A
ATOM	742	O	ASN	A	86	46.958	10.250	5.305	1.00	29.13	A
ATOM	743	N	ASN	A	87	44.954	10.657	6.280	1.00	38.44	A
ATOM	744	CA	ASN	A	87	44.233	10.561	5.022	1.00	41.33	A
ATOM	745	CB	ASN	A	87	44.849	11.580	4.054	1.00	28.80	A
ATOM	746	CG	ASN	A	87	44.029	11.800	2.804	1.00	37.17	A
ATOM	747	OD1	ASN	A	87	42.805	11.884	2.853	1.00	37.07	A
ATOM	748	ND2	ASN	A	87	44.712	11.937	1.672	1.00	30.65	A
ATOM	749	C	ASN	A	87	44.292	9.134	4.456	1.00	38.85	A
ATOM	750	O	ASN	A	87	43.687	8.855	3.423	1.00	41.50	A
ATOM	751	N	GLU	A	88	45.020	8.242	5.141	1.00	33.32	A
ATOM	752	CA	GLU	A	88	45.139	6.831	4.741	1.00	31.08	A
ATOM	753	CB	GLU	A	88	46.601	6.399	4.649	1.00	30.38	A
ATOM	754	CG	GLU	A	88	47.401	6.926	3.487	1.00	33.96	A
ATOM	755	CD	GLU	A	88	48.665	6.093	3.269	1.00	43.72	A
ATOM	756	OE1	GLU	A	88	49.085	5.416	4.236	1.00	44.42	A
ATOM	757	OE2	GLU	A	88	49.240	6.116	2.151	1.00	52.97	A
ATOM	758	C	GLU	A	88	44.434	5.860	5.720	1.00	32.31	A
ATOM	759	O	GLU	A	88	44.582	4.634	5.590	1.00	29.83	A
ATOM	760	N	ASP	A	89	43.692	6.397	6.698	1.00	26.57	A
ATOM	761	CA	ASP	A	89	42.980	5.573	7.681	1.00	30.23	A
ATOM	762	CB	ASP	A	89	42.993	6.230	9.055	1.00	30.74	A
ATOM	763	CG	ASP	A	89	41.937	7.310	9.191	1.00	34.05	A
ATOM	764	OD1	ASP	A	89	42.062	8.327	8.486	1.00	32.91	A
ATOM	765	OD2	ASP	A	89	40.982	7.151	9.992	1.00	33.95	A
ATOM	766	C	ASP	A	89	41.520	5.285	7.318	1.00	25.26	A
ATOM	767	O	ASP	A	89	40.676	5.112	8.204	1.00	27.64	A
ATOM	768	N	CYS	A	90	41.205	5.247	6.028	1.00	27.28	A
ATOM	769	CA	CYS	A	90	39.842	4.940	5.620	1.00	26.14	A
ATOM	770	C	CYS	A	90	39.792	3.446	5.408	1.00	29.51	A
ATOM	771	O	CYS	A	90	40.691	2.885	4.804	1.00	25.78	A
ATOM	772	CB	CYS	A	90	39.484	5.696	4.346	1.00	32.27	A
ATOM	773	SG	CYS	A	90	39.188	7.435	4.746	1.00	36.17	A
ATOM	774	N	VAL	A	91	38.748	2.805	5.923	1.00	28.59	A
ATOM	775	CA	VAL	A	91	38.621	1.349	5.830	1.00	24.29	A
ATOM	776	CB	VAL	A	91	38.044	0.769	7.123	1.00	30.76	A
ATOM	777	CG1	VAL	A	91	37.881	-0.722	6.976	1.00	25.33	A
ATOM	778	CG2	VAL	A	91	38.938	1.132	8.307	1.00	28.22	A
ATOM	779	C	VAL	A	91	37.732	0.867	4.710	1.00	23.20	A
ATOM	780	O	VAL	A	91	36.600	1.320	4.585	1.00	25.46	A
ATOM	781	N	GLU	A	92	38.229	-0.067	3.911	1.00	19.40	A
ATOM	782	CA	GLU	A	92	37.434	-0.609	2.821	1.00	22.22	A
ATOM	783	CB	GLU	A	92	38.268	-0.702	1.567	1.00	24.28	A
ATOM	784	CG	GLU	A	92	39.303	-1.755	1.686	1.00	21.43	A
ATOM	785	CD	GLU	A	92	39.855	-2.144	0.352	1.00	28.71	A
ATOM	786	OE1	GLU	A	92	39.069	-2.250	-0.611	1.00	27.15	A
ATOM	787	OE2	GLU	A	92	41.077	-2.357	0.262	1.00	25.32	A
ATOM	788	C	GLU	A	92	37.052	-2.014	3.253	1.00	23.66	A
ATOM	789	O	GLU	A	92	37.832	-2.635	3.967	1.00	25.10	A
ATOM	790	N	ILE	A	93	35.877	-2.512	2.842	1.00	24.26	A
ATOM	791	CA	ILE	A	93	35.448	-3.873	3.198	1.00	19.30	A

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ATOM	792	CB	ILE	A	93	34.070	-3.898	3.816	1.00	24.55	A
ATOM	793	CG2	ILE	A	93	33.051	-3.474	2.790	1.00	24.77	A
ATOM	794	CG1	ILE	A	93	33.762	-5.313	4.307	1.00	20.99	A
ATOM	795	CD1	ILE	A	93	32.529	-5.433	5.211	1.00	14.24	A
ATOM	796	C	ILE	A	93	35.407	-4.761	1.967	1.00	25.22	A
ATOM	797	O	ILE	A	93	34.727	-4.444	1.005	1.00	20.05	A
ATOM	798	N	TYR	A	94	36.133	-5.878	2.024	1.00	21.11	A
ATOM	799	CA	TYR	A	94	36.254	-6.842	0.920	1.00	24.63	A
ATOM	800	CB	TYR	A	94	37.353	-7.836	1.222	1.00	19.93	A
ATOM	801	CG	TYR	A	94	38.707	-7.238	1.393	1.00	24.89	A
ATOM	802	CD1	TYR	A	94	39.360	-6.610	0.336	1.00	25.87	A
ATOM	803	CE1	TYR	A	94	40.651	-6.165	0.471	1.00	27.50	A
ATOM	804	CD2	TYR	A	94	39.379	-7.387	2.590	1.00	22.87	A
ATOM	805	CE2	TYR	A	94	40.659	-6.953	2.740	1.00	28.65	A
ATOM	806	CZ	TYR	A	94	41.299	-6.349	1.684	1.00	31.01	A
ATOM	807	OH	TYR	A	94	42.612	-5.989	1.871	1.00	19.45	A
ATOM	808	C	TYR	A	94	35.039	-7.654	0.469	1.00	28.35	A
ATOM	809	O	TYR	A	94	35.098	-8.892	0.392	1.00	28.34	A
ATOM	810	N	ILE	A	95	33.946	-6.964	0.163	1.00	21.92	A
ATOM	811	CA	ILE	A	95	32.756	-7.637	-0.320	1.00	20.80	A
ATOM	812	CB	ILE	A	95	31.716	-6.655	-0.842	1.00	18.04	A
ATOM	813	CG2	ILE	A	95	30.718	-7.408	-1.715	1.00	21.44	A
ATOM	814	CG1	ILE	A	95	31.053	-5.916	0.331	1.00	11.55	A
ATOM	815	CD1	ILE	A	95	30.064	-6.734	1.089	1.00	19.74	A
ATOM	816	C	ILE	A	95	33.131	-8.558	-1.473	1.00	20.37	A
ATOM	817	O	ILE	A	95	33.714	-8.129	-2.489	1.00	17.71	A
ATOM	818	N	LYS	A	96	32.774	-9.823	-1.288	1.00	20.47	A
ATOM	819	CA	LYS	A	96	33.023	-10.864	-2.250	1.00	19.69	A
ATOM	820	CB	LYS	A	96	32.094	-10.708	-3.462	1.00	11.82	A
ATOM	821	CG	LYS	A	96	30.688	-11.265	-3.225	1.00	19.95	A
ATOM	822	CD	LYS	A	96	29.704	-10.961	-4.371	1.00	15.87	A
ATOM	823	CE	LYS	A	96	28.355	-11.664	-4.172	1.00	8.01	A
ATOM	824	NZ	LYS	A	96	27.817	-11.527	-2.782	1.00	11.27	A
ATOM	825	C	LYS	A	96	34.469	-10.952	-2.699	1.00	18.87	A
ATOM	826	O	LYS	A	96	34.752	-11.039	-3.886	1.00	18.43	A
ATOM	827	N	SER	A	97	35.393	-10.933	-1.748	1.00	20.10	A
ATOM	828	CA	SER	A	97	36.807	-11.065	-2.087	1.00	23.00	A
ATOM	829	CB	SER	A	97	37.697	-10.377	-1.045	1.00	23.68	A
ATOM	830	OG	SER	A	97	39.067	-10.715	-1.212	1.00	24.09	A
ATOM	831	C	SER	A	97	37.137	-12.543	-2.121	1.00	20.05	A
ATOM	832	O	SER	A	97	36.632	-13.326	-1.317	1.00	16.41	A
ATOM	833	N	PRO	A	98	37.993	-12.947	-3.053	1.00	21.93	A
ATOM	834	CD	PRO	A	98	38.657	-12.137	-4.078	1.00	20.11	A
ATOM	835	CA	PRO	A	98	38.388	-14.347	-3.186	1.00	27.80	A
ATOM	836	CB	PRO	A	98	39.174	-14.347	-4.487	1.00	19.75	A
ATOM	837	CG	PRO	A	98	39.818	-13.018	-4.453	1.00	27.99	A
ATOM	838	C	PRO	A	98	39.217	-14.872	-2.018	1.00	28.12	A
ATOM	839	O	PRO	A	98	39.233	-16.084	-1.740	1.00	29.04	A
ATOM	840	N	SER	A	99	39.887	-13.959	-1.323	1.00	32.73	A
ATOM	841	CA	SER	A	99	40.739	-14.369	-0.231	1.00	37.75	A
ATOM	842	CB	SER	A	99	42.153	-13.862	-0.478	1.00	37.50	A
ATOM	843	OG	SER	A	99	42.148	-12.468	-0.651	1.00	40.67	A
ATOM	844	C	SER	A	99	40.258	-13.954	1.138	1.00	38.11	A
ATOM	845	O	SER	A	99	40.256	-14.751	2.073	1.00	37.80	A
ATOM	846	N	ALA	A	100	39.853	-12.710	1.280	1.00	37.30	A
ATOM	847	CA	ALA	A	100	39.375	-12.282	2.587	1.00	25.61	A
ATOM	848	CB	ALA	A	100	40.325	-11.232	3.205	1.00	27.16	A
ATOM	849	C	ALA	A	100	37.955	-11.730	2.487	1.00	29.62	A
ATOM	850	O	ALA	A	100	37.707	-10.562	2.796	1.00	26.29	A
ATOM	851	N	PRO	A	101	37.004	-12.569	2.055	1.00	28.63	A
ATOM	852	CD	PRO	A	101	37.088	-14.021	1.877	1.00	25.07	A
ATOM	853	CA	PRO	A	101	35.622	-12.132	1.928	1.00	24.42	A
ATOM	854	CB	PRO	A	101	34.894	-13.436	1.621	1.00	32.86	A
ATOM	855	CG	PRO	A	101	35.722	-14.437	2.282	1.00	28.15	A
ATOM	856	C	PRO	A	101	35.130	-11.480	3.207	1.00	24.56	A
ATOM	857	O	PRO	A	101	35.276	-12.077	4.267	1.00	25.81	A

ATOM 858 N GLY A 102 34.578 -10.262 3.111 1.00 24.24 A
ATOM 859 CA GLY A 102 34.048 -9.554 4.279 1.00 14.94 A
ATOM 860 C GLY A 102 34.992 -8.893 5.284 1.00 16.96 A
ATOM 861 O GLY A 102 34.551 -8.163 6.153 1.00 16.30 A
ATOM 862 N LYS A 103 36.284 -9.158 5.167 1.00 18.58 A
ATOM 863 CA LYS A 103 37.325 -8.604 6.033 1.00 28.31 A
ATOM 864 CB LYS A 103 38.609 -9.417 5.814 1.00 31.75 A
ATOM 865 CG LYS A 103 39.044 -10.318 6.970 1.00 32.92 A
ATOM 866 CD LYS A 103 38.043 -11.395 7.372 1.00 36.47 A
ATOM 867 CE LYS A 103 38.664 -12.347 8.416 1.00 33.55 A
ATOM 868 NZ LYS A 103 39.874 -13.052 7.885 1.00 28.73 A
ATOM 869 C LYS A 103 37.590 -7.112 5.708 1.00 28.67 A
ATOM 870 O LYS A 103 37.262 -6.659 4.607 1.00 25.99 A
ATOM 871 N TRP A 104 38.188 -6.361 6.649 1.00 25.01 A
ATOM 872 CA TRP A 104 38.494 -4.930 6.434 1.00 22.64 A
ATOM 873 CB TRP A 104 38.114 -4.082 7.649 1.00 19.40 A
ATOM 874 CG TRP A 104 36.728 -4.235 8.051 1.00 16.58 A
ATOM 875 CD2 TRP A 104 36.190 -4.004 9.353 1.00 20.83 A
ATOM 876 CE2 TRP A 104 34.816 -4.330 9.298 1.00 15.74 A
ATOM 877 CE3 TRP A 104 36.734 -3.558 10.567 1.00 17.53 A
ATOM 878 CD1 TRP A 104 35.697 -4.667 7.275 1.00 23.37 A
ATOM 879 NE1 TRP A 104 34.546 -4.732 8.015 1.00 21.96 A
ATOM 880 CZ2 TRP A 104 33.972 -4.228 10.419 1.00 17.31 A
ATOM 881 CZ3 TRP A 104 35.890 -3.461 11.684 1.00 14.27 A
ATOM 882 CH2 TRP A 104 34.528 -3.796 11.596 1.00 20.88 A
ATOM 883 C TRP A 104 39.952 -4.607 6.102 1.00 23.49 A
ATOM 884 O TRP A 104 40.868 -5.323 6.482 1.00 24.44 A
ATOM 885 N ASN A 105 40.153 -3.507 5.393 1.00 28.67 A
ATOM 886 CA ASN A 105 41.477 -3.071 5.029 1.00 25.91 A
ATOM 887 CB ASN A 105 41.786 -3.399 3.586 1.00 25.13 A
ATOM 888 CG ASN A 105 43.062 -2.730 3.104 1.00 31.99 A
ATOM 889 OD1 ASN A 105 44.078 -2.767 3.790 1.00 28.76 A
ATOM 890 ND2 ASN A 105 43.018 -2.123 1.919 1.00 24.60 A
ATOM 891 C ASN A 105 41.508 -1.586 5.182 1.00 36.39 A
ATOM 892 O ASN A 105 40.648 -0.894 4.650 1.00 30.78 A
ATOM 893 N ASP A 106 42.491 -1.105 5.929 1.00 34.16 A
ATOM 894 CA ASP A 106 42.672 0.318 6.147 1.00 28.39 A
ATOM 895 CB ASP A 106 43.582 0.549 7.361 1.00 30.66 A
ATOM 896 CG ASP A 106 44.972 -0.055 7.195 1.00 35.40 A
ATOM 897 OD1 ASP A 106 45.101 -1.211 6.749 1.00 26.35 A
ATOM 898 OD2 ASP A 106 45.947 0.637 7.535 1.00 37.92 A
ATOM 899 C ASP A 106 43.308 0.779 4.843 1.00 21.28 A
ATOM 900 O ASP A 106 44.304 0.216 4.387 1.00 19.44 A
ATOM 901 N GLU A 107 42.725 1.802 4.236 1.00 20.72 A
ATOM 902 CA GLU A 107 43.183 2.268 2.931 1.00 28.98 A
ATOM 903 CB GLU A 107 42.241 1.665 1.879 1.00 25.40 A
ATOM 904 CG GLU A 107 42.636 1.843 0.469 1.00 31.69 A
ATOM 905 CD GLU A 107 44.037 1.390 0.243 1.00 37.56 A
ATOM 906 OE1 GLU A 107 44.963 2.169 0.559 1.00 42.28 A
ATOM 907 OE2 GLU A 107 44.215 0.253 -0.237 1.00 44.65 A
ATOM 908 C GLU A 107 43.255 3.802 2.806 1.00 30.84 A
ATOM 909 O GLU A 107 42.814 4.532 3.705 1.00 28.83 A
ATOM 910 N HIS A 108 43.815 4.277 1.691 1.00 30.20 A
ATOM 911 CA HIS A 108 43.972 5.701 1.456 1.00 27.45 A
ATOM 912 CB HIS A 108 45.128 5.949 0.520 1.00 24.95 A
ATOM 913 CG HIS A 108 45.318 7.392 0.183 1.00 40.39 A
ATOM 914 CD2 HIS A 108 44.708 8.505 0.654 1.00 39.14 A
ATOM 915 ND1 HIS A 108 46.225 7.825 -0.762 1.00 36.59 A
ATOM 916 CE1 HIS A 108 46.163 9.142 -0.861 1.00 30.43 A
ATOM 917 NE2 HIS A 108 45.250 9.579 -0.012 1.00 42.72 A
ATOM 918 C HIS A 108 42.742 6.395 0.898 1.00 26.78 A
ATOM 919 O HIS A 108 42.480 6.356 -0.296 1.00 29.10 A
ATOM 920 N CYS A 109 42.028 7.067 1.791 1.00 30.26 A
ATOM 921. CA CYS A 109 40.800 7.812 1.526 1.00 24.85 A
ATOM 922 C CYS A 109 40.611 8.523 0.189 1.00 24.22 A
ATOM 923 O CYS A 109 39.515 8.997 -0.090 1.00 24.05 A

ATOM	924	CB	CYS	A	109	40.625	8.854	2.611	1.00	26.49	A
ATOM	925	SG	CYS	A	109	40.944	8.283	4.298	1.00	32.69	A
ATOM	926	N	LEU	A	110	41.647	8.665	-0.623	1.00	21.99	A
ATOM	927	CA	LEU	A	110	41.428	9.342	-1.890	1.00	33.57	A
ATOM	928	CB	LEU	A	110	42.560	10.311	-2.205	1.00	35.59	A
ATOM	929	CG	LEU	A	110	42.481	11.679	-1.533	1.00	39.72	A
ATOM	930	CD1	LEU	A	110	43.470	12.589	-2.185	1.00	35.90	A
ATOM	931	CD2	LEU	A	110	41.112	12.267	-1.679	1.00	32.12	A
ATOM	932	C	LEU	A	110	41.239	8.358	-3.032	1.00	32.41	A
ATOM	933	O	LEU	A	110	40.897	8.740	-4.155	1.00	36.40	A
ATOM	934	N	LYS	A	111	41.464	7.084	-2.746	1.00	29.80	A
ATOM	935	CA	LYS	A	111	41.265	6.063	-3.745	1.00	32.24	A
ATOM	936	CB	LYS	A	111	41.869	4.743	-3.279	1.00	35.77	A
ATOM	937	CG	LYS	A	111	43.197	4.424	-3.913	1.00	38.11	A
ATOM	938	CD	LYS	A	111	43.524	2.944	-3.759	1.00	46.45	A
ATOM	939	CE	LYS	A	111	44.689	2.510	-4.677	1.00	51.18	A
ATOM	940	NZ	LYS	A	111	44.278	2.291	-6.101	1.00	63.37	A
ATOM	941	C	LYS	A	111	39.763	5.927	-3.891	1.00	27.03	A
ATOM	942	O	LYS	A	111	39.026	6.037	-2.930	1.00	26.59	A
ATOM	943	N	LYS	A	112	39.303	5.688	-5.096	1.00	24.10	A
ATOM	944	CA	LYS	A	112	37.880	5.541	-5.294	1.00	31.92	A
ATOM	945	CB	LYS	A	112	37.542	5.826	-6.767	1.00	38.01	A
ATOM	946	CG	LYS	A	112	37.872	7.267	-7.220	1.00	35.92	A
ATOM	947	CD	LYS	A	112	37.716	7.496	-8.736	1.00	50.57	A
ATOM	948	CE	LYS	A	112	37.956	8.967	-9.139	1.00	54.86	A
ATOM	949	NZ	LYS	A	112	39.336	9.536	-8.883	1.00	54.37	A
ATOM	950	C	LYS	A	112	37.335	4.162	-4.870	1.00	30.44	A
ATOM	951	O	LYS	A	112	38.000	3.130	-5.011	1.00	31.59	A
ATOM	952	N	LYS	A	113	36.115	4.162	-4.343	1.00	28.28	A
ATOM	953	CA	LYS	A	113	35.443	2.942	-3.912	1.00	28.31	A
ATOM	954	CB	LYS	A	113	36.010	2.456	-2.591	1.00	25.54	A
ATOM	955	CG	LYS	A	113	37.431	1.994	-2.659	1.00	24.57	A
ATOM	956	CD	LYS	A	113	37.900	1.536	-1.289	1.00	24.14	A
ATOM	957	CE	LYS	A	113	39.354	1.086	-1.319	1.00	9.13	A
ATOM	958	NZ	LYS	A	113	39.610	-0.076	-2.219	1.00	17.60	A
ATOM	959	C	LYS	A	113	33.926	3.145	-3.777	1.00	29.06	A
ATOM	960	O	LYS	A	113	33.429	4.280	-3.732	1.00	30.77	A
ATOM	961	N	HIS	A	114	33.196	2.038	-3.683	1.00	25.88	A
ATOM	962	CA	HIS	A	114	31.747	2.091	-3.601	1.00	25.42	A
ATOM	963	CB	HIS	A	114	31.155	0.802	-4.152	1.00	19.34	A
ATOM	964	CG	HIS	A	114	31.253	0.711	-5.636	1.00	24.43	A
ATOM	965	CD2	HIS	A	114	30.397	1.100	-6.605	1.00	24.32	A
ATOM	966	ND1	HIS	A	114	32.394	0.286	-6.279	1.00	23.62	A
ATOM	967	CE1	HIS	A	114	32.237	0.422	-7.581	1.00	24.02	A
ATOM	968	NE2	HIS	A	114	31.033	0.915	-7.805	1.00	34.52	A
ATOM	969	C	HIS	A	114	31.136	2.380	-2.261	1.00	28.52	A
ATOM	970	O	HIS	A	114	31.103	1.517	-1.401	1.00	26.62	A
ATOM	971	N	ALA	A	115	30.614	3.588	-2.095	1.00	31.81	A
ATOM	972	CA	ALA	A	115	29.992	3.965	-0.834	1.00	27.70	A
ATOM	973	CB	ALA	A	115	29.425	5.356	-0.928	1.00	28.09	A
ATOM	974	C	ALA	A	115	28.895	3.010	-0.429	1.00	31.61	A
ATOM	975	O	ALA	A	115	27.879	2.918	-1.098	1.00	27.10	A
ATOM	976	N	LEU	A	116	29.122	2.320	0.683	1.00	22.30	A
ATOM	977	CA	LEU	A	116	28.186	1.355	1.259	1.00	27.89	A
ATOM	978	CB	LEU	A	116	28.978	0.154	1.757	1.00	17.72	A
ATOM	979	CG	LEU	A	116	28.325	-0.866	2.667	1.00	24.00	A
ATOM	980	CD1	LEU	A	116	26.982	-1.243	2.120	1.00	16.77	A
ATOM	981	CD2	LEU	A	116	29.249	-2.061	2.794	1.00	22.62	A
ATOM	982	C	LEU	A	116	27.473	2.050	2.415	1.00	27.20	A
ATOM	983	O	LEU	A	116	28.045	2.223	3.491	1.00	33.02	A
ATOM	984	N	CYS	A	117	26.221	2.436	2.184	1.00	23.92	A
ATOM	985	CA	CYS	A	117	25.429	3.187	3.157	1.00	24.26	A
ATOM	986	C	CYS	A	117	24.439	2.433	3.986	1.00	32.92	A
ATOM	987	O	CYS	A	117	24.243	1.244	3.820	1.00	31.60	A
ATOM	988	CB	CYS	A	117	24.625	4.262	2.453	1.00	28.51	A
ATOM	989	SG	CYS	A	117	25.551	5.310	1.308	1.00	29.73	A

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ATOM	990	N	TYR	A	118	23.788	3.166	4.875	1.00	27.02	A
ATOM	991	CA	TYR	A	118	22.748	2.589	5.697	1.00	31.13	A
ATOM	992	CB	TYR	A	118	23.334	1.890	6.926	1.00	30.76	A
ATOM	993	CG	TYR	A	118	23.556	2.807	8.078	1.00	22.72	A
ATOM	994	CD1	TYR	A	118	24.683	3.619	8.121	1.00	25.06	A
ATOM	995	CE1	TYR	A	118	24.857	4.560	9.142	1.00	24.54	A
ATOM	996	CD2	TYR	A	118	22.595	2.937	9.081	1.00	29.31	A
ATOM	997	CE2	TYR	A	118	22.747	3.872	10.110	1.00	34.23	A
ATOM	998	CZ	TYR	A	118	23.885	4.687	10.137	1.00	32.04	A
ATOM	999	OH	TYR	A	118	24.068	5.625	11.139	1.00	31.23	A
ATOM	1000	C	TYR	A	118	21.802	3.681	6.152	1.00	36.07	A
ATOM	1001	O	TYR	A	118	22.239	4.729	6.591	1.00	32.69	A
ATOM	1002	N	THR	A	119	20.506	3.450	6.022	1.00	36.04	A
ATOM	1003	CA	THR	A	119	19.529	4.422	6.491	1.00	34.35	A
ATOM	1004	CB	THR	A	119	18.338	4.492	5.577	1.00	29.68	A
ATOM	1005	OG1	THR	A	119	18.725	5.108	4.350	1.00	32.38	A
ATOM	1006	CG2	THR	A	119	17.242	5.282	6.222	1.00	33.52	A
ATOM	1007	C	THR	A	119	19.082	3.865	7.832	1.00	33.61	A
ATOM	1008	O	THR	A	119	18.906	2.661	7.953	1.00	31.85	A
ATOM	1009	N	ALA	A	120	18.895	4.707	8.838	1.00	30.91	A
ATOM	1010	CA	ALA	A	120	18.518	4.183	10.136	1.00	33.51	A
ATOM	1011	CB	ALA	A	120	18.833	5.179	11.210	1.00	33.59	A
ATOM	1012	C	ALA	A	120	17.077	3.773	10.225	1.00	33.23	A
ATOM	1013	O	ALA	A	120	16.190	4.389	9.628	1.00	34.09	A
ATOM	1014	N	SER	A	121	16.849	2.714	10.987	1.00	29.70	A
ATOM	1015	CA	SER	A	121	15.503	2.189	11.183	1.00	31.10	A
ATOM	1016	CB	SER	A	121	15.552	0.672	11.379	1.00	28.36	A
ATOM	1017	OG	SER	A	121	16.053	0.019	10.221	1.00	31.27	A
ATOM	1018	C	SER	A	121	14.907	2.846	12.412	1.00	34.10	A
ATOM	1019	O	SER	A	121	13.732	3.219	12.439	1.00	32.12	A
ATOM	1020	N	CYS	A	122	15.745	2.980	13.427	1.00	33.86	A
ATOM	1021	CA	CYS	A	122	15.365	3.596	14.676	1.00	40.07	A
ATOM	1022	C	CYS	A	122	14.912	5.038	14.487	1.00	44.25	A
ATOM	1023	O	CYS	A	122	15.718	5.920	14.146	1.00	44.82	A
ATOM	1024	CB	CYS	A	122	16.547	3.537	15.643	1.00	39.44	A
ATOM	1025	SG	CYS	A	122	16.714	1.894	16.391	1.00	43.21	A
ATOM	1026	N	GLN	A	123	13.620	5.274	14.711	1.00	47.90	A
ATOM	1027	CA	GLN	A	123	13.045	6.607	14.584	1.00	52.29	A
ATOM	1028	CB	GLN	A	123	11.686	6.539	13.887	1.00	54.62	A
ATOM	1029	CG	GLN	A	123	11.774	6.085	12.438	1.00	59.23	A
ATOM	1030	CD	GLN	A	123	12.877	6.801	11.672	1.00	70.62	A
ATOM	1031	OE1	GLN	A	123	13.026	8.018	11.777	1.00	71.94	A
ATOM	1032	NE2	GLN	A	123	13.653	6.048	10.890	1.00	67.30	A
ATOM	1033	C	GLN	A	123	12.909	7.260	15.950	1.00	55.68	A
ATOM	1034	O	GLN	A	123	12.989	6.589	16.976	1.00	46.75	A
ATOM	1035	N	ASP	A	124	12.713	8.574	15.950	1.00	63.95	A
ATOM	1036	CA	ASP	A	124	12.589	9.351	17.177	1.00	66.09	A
ATOM	1037	CB	ASP	A	124	11.969	10.716	16.864	1.00	71.12	A
ATOM	1038	CG	ASP	A	124	11.404	11.402	18.110	1.00	78.66	A
ATOM	1039	OD1	ASP	A	124	12.120	11.454	19.144	1.00	77.47	A
ATOM	1040	OD2	ASP	A	124	10.246	11.888	18.052	1.00	79.52	A
ATOM	1041	C	ASP	A	124	11.818	8.712	18.335	1.00	63.88	A
ATOM	1042	O	ASP	A	124	12.396	8.409	19.386	1.00	60.59	A
ATOM	1043	N	MET	A	125	10.514	8.528	18.143	1.00	60.83	A
ATOM	1044	CA	MET	A	125	9.659	7.962	19.178	1.00	64.58	A
ATOM	1045	CB	MET	A	125	8.238	8.509	19.021	1.00	72.79	A
ATOM	1046	CG	MET	A	125	8.094	9.977	19.400	1.00	78.47	A
ATOM	1047	SD	MET	A	125	8.857	10.330	21.017	1.00	87.71	A
ATOM	1048	CE	MET	A	125	7.825	9.307	22.138	1.00	80.67	A
ATOM	1049	C	MET	A	125	9.611	6.439	19.236	1.00	60.36	A
ATOM	1050	O	MET	A	125	8.682	5.859	19.803	1.00	60.96	A
ATOM	1051	N	SER	A	126	10.611	5.784	18.661	1.00	56.54	A
ATOM	1052	CA	SER	A	126	10.624	4.331	18.666	1.00	50.82	A
ATOM	1053	CB	SER	A	126	11.719	3.789	17.745	1.00	47.49	A
ATOM	1054	OG	SER	A	126	11.379	4.039	16.389	1.00	36.95	A
ATOM	1055	C	SER	A	126	10.818	3.819	20.068	1.00	46.69	A

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ATOM	1056	O	SER	A	126	11.452	4.474	20.897	1.00	49.25	A
ATOM	1057	N	CYS	A	127	10.260	2.643	20.326	1.00	40.24	A
ATOM	1058	CA	CYS	A	127	10.346	2.019	21.638	1.00	41.82	A
ATOM	1059	C	CYS	A	127	9.721	2.912	22.694	1.00	42.48	A
ATOM	1060	O	CYS	A	127	10.245	3.022	23.798	1.00	44.89	A
ATOM	1061	CB	CYS	A	127	11.804	1.743	22.004	1.00	40.19	A
ATOM	1062	SG	CYS	A	127	12.699	0.757	20.763	1.00	40.76	A
ATOM	1063	N	SER	A	128	8.607	3.552	22.336	1.00	45.31	A
ATOM	1064	CA	SER	A	128	7.871	4.443	23.240	1.00	49.24	A
ATOM	1065	CB	SER	A	128	7.008	3.619	24.203	1.00	46.48	A
ATOM	1066	OG	SER	A	128	6.131	2.758	23.493	1.00	56.65	A
ATOM	1067	C	SER	A	128	8.772	5.356	24.056	1.00	48.85	A
ATOM	1068	O	SER	A	128	8.401	5.777	25.143	1.00	49.05	A
ATOM	1069	N	LYS	A	129	9.952	5.658	23.523	1.00	50.15	A
ATOM	1070	CA	LYS	A	129	10.940	6.504	24.194	1.00	55.60	A
ATOM	1071	CB	LYS	A	129	10.393	7.924	24.403	1.00	60.54	A
ATOM	1072	CG	LYS	A	129	11.478	8.984	24.586	1.00	65.92	A
ATOM	1073	CD	LYS	A	129	12.329	9.148	23.310	1.00	70.21	A
ATOM	1074	CE	LYS	A	129	13.366	10.292	23.422	1.00	71.17	A
ATOM	1075	NZ	LYS	A	129	14.165	10.559	22.167	1.00	70.00	A
ATOM	1076	C	LYS	A	129	11.314	5.874	25.541	1.00	56.59	A
ATOM	1077	O	LYS	A	129	12.204	6.352	26.249	1.00	60.67	A
ATOM	1078	N	GLN	A	130	10.643	4.777	25.867	1.00	54.30	A
ATOM	1079	CA	GLN	A	130	10.867	4.075	27.113	1.00	50.39	A
ATOM	1080	CB	GLN	A	130	9.502	3.728	27.720	1.00	52.03	A
ATOM	1081	CG	GLN	A	130	8.574	4.960	27.710	1.00	49.61	A
ATOM	1082	CD	GLN	A	130	7.309	4.835	28.558	1.00	51.41	A
ATOM	1083	OE1	GLN	A	130	6.616	3.819	28.511	1.00	53.13	A
ATOM	1084	NE2	GLN	A	130	6.996	5.888	29.323	1.00	56.13	A
ATOM	1085	C	GLN	A	130	11.730	2.837	26.886	1.00	50.95	A
ATOM	1086	O	GLN	A	130	11.568	1.804	27.543	1.00	45.05	A
ATOM	1087	N	GLY	A	131	12.669	2.965	25.953	1.00	50.43	A
ATOM	1088	CA	GLY	A	131	13.555	1.858	25.638	1.00	45.84	A
ATOM	1089	C	GLY	A	131	14.735	2.256	24.763	1.00	46.02	A
ATOM	1090	O	GLY	A	131	14.796	3.367	24.226	1.00	46.45	A
ATOM	1091	N	GLU	A	132	15.673	1.328	24.611	1.00	46.73	A
ATOM	1092	CA	GLU	A	132	16.869	1.559	23.820	1.00	46.72	A
ATOM	1093	CB	GLU	A	132	18.074	0.949	24.532	1.00	46.33	A
ATOM	1094	CG	GLU	A	132	19.434	1.306	23.953	1.00	60.98	A
ATOM	1095	CD	GLU	A	132	20.495	0.255	24.272	1.00	70.31	A
ATOM	1096	OE1	GLU	A	132	20.668	-0.094	25.467	1.00	71.24	A
ATOM	1097	OE2	GLU	A	132	21.153	-0.226	23.319	1.00	66.54	A
ATOM	1098	C	GLU	A	132	16.716	0.917	22.457	1.00	43.64	A
ATOM	1099	O	GLU	A	132	16.989	-0.273	22.301	1.00	47.51	A
ATOM	1100	N	CYS	A	133	16.290	1.715	21.478	1.00	42.63	A
ATOM	1101	CA	CYS	A	133	16.096	1.253	20.101	1.00	37.92	A
ATOM	1102	C	CYS	A	133	17.357	0.618	19.514	1.00	36.36	A
ATOM	1103	O	CYS	A	133	18.379	1.270	19.321	1.00	36.32	A
ATOM	1104	CB	CYS	A	133	15.658	2.409	19.203	1.00	33.55	A
ATOM	1105	SG	CYS	A	133	15.070	1.843	17.578	1.00	43.70	A
ATOM	1106	N	LEU	A	134	17.266	-0.666	19.218	1.00	39.22	A
ATOM	1107	CA	LEU	A	134	18.387	-1.406	18.680	1.00	37.65	A
ATOM	1108	CB	LEU	A	134	18.635	-2.631	19.563	1.00	41.05	A
ATOM	1109	CG	LEU	A	134	19.399	-3.796	18.939	1.00	51.12	A
ATOM	1110	CD1	LEU	A	134	20.362	-4.411	19.963	1.00	46.83	A
ATOM	1111	CD2	LEU	A	134	18.389	-4.819	18.413	1.00	38.97	A
ATOM	1112	C	LEU	A	134	18.170	-1.818	17.226	1.00	30.53	A
ATOM	1113	O	LEU	A	134	17.272	-2.603	16.917	1.00	31.23	A
ATOM	1114	N	GLU	A	135	19.005	-1.275	16.345	1.00	32.11	A
ATOM	1115	CA	GLU	A	135	18.950	-1.550	14.917	1.00	28.72	A
ATOM	1116	CB	GLU	A	135	19.952	-0.636	14.200	1.00	32.15	A
ATOM	1117	CG	GLU	A	135	19.587	0.850	14.190	1.00	33.29	A
ATOM	1118	CD	GLU	A	135	18.634	1.246	13.040	1.00	38.69	A
ATOM	1119	OE1	GLU	A	135	18.485	0.457	12.072	1.00	36.70	A
ATOM	1120	OE2	GLU	A	135	18.052	2.360	13.092	1.00	37.49	A
ATOM	1121	C	GLU	A	135	19.247	-3.025	14.567	1.00	30.77	A

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ATOM	1122	O	GLU	A	135	20.133	-3.637	15.158	1.00	38.11	A
ATOM	1123	N	THR	A	136	18.502	-3.586	13.610	1.00	25.74	A
ATOM	1124	CA	THR	A	136	18.700	-4.969	13.159	1.00	29.26	A
ATOM	1125	CB	THR	A	136	17.476	-5.870	13.464	1.00	26.22	A
ATOM	1126	OG1	THR	A	136	16.411	-5.582	12.550	1.00	37.52	A
ATOM	1127	CG2	THR	A	136	16.980	-5.630	14.861	1.00	26.26	A
ATOM	1128	C	THR	A	136	18.886	-4.939	11.647	1.00	34.83	A
ATOM	1129	O	THR	A	136	18.817	-3.880	11.034	1.00	35.70	A
ATOM	1130	N	ILE	A	137	19.132	-6.097	11.045	1.00	27.30	A
ATOM	1131	CA	ILE	A	137	19.292	-6.175	9.595	1.00	28.22	A
ATOM	1132	CB	ILE	A	137	19.590	-7.616	9.119	1.00	21.97	A
ATOM	1133	CG2	ILE	A	137	19.846	-7.628	7.619	1.00	23.73	A
ATOM	1134	CG1	ILE	A	137	20.759	-8.202	9.900	1.00	29.75	A
ATOM	1135	CD1	ILE	A	137	21.229	-9.559	9.378	1.00	24.61	A
ATOM	1136	C	ILE	A	137	17.950	-5.812	8.968	1.00	29.56	A
ATOM	1137	O	ILE	A	137	17.228	-6.708	8.553	1.00	34.19	A
ATOM	1138	N	GLY	A	138	17.578	-4.539	8.903	1.00	30.63	A
ATOM	1139	CA	GLY	A	138	16.292	-4.234	8.287	1.00	32.09	A
ATOM	1140	C	GLY	A	138	15.110	-3.844	9.173	1.00	34.00	A
ATOM	1141	O	GLY	A	138	13.960	-3.760	8.704	1.00	33.01	A
ATOM	1142	N	ASN	A	139	15.381	-3.599	10.450	1.00	35.41	A
ATOM	1143	CA	ASN	A	139	14.349	-3.185	11.384	1.00	38.67	A
ATOM	1144	CB	ASN	A	139	13.469	-4.357	11.755	1.00	37.34	A
ATOM	1145	CG	ASN	A	139	12.038	-3.965	11.868	1.00	38.70	A
ATOM	1146	OD1	ASN	A	139	11.733	-2.815	12.174	1.00	41.72	A
ATOM	1147	ND2	ASN	A	139	11.138	-4.913	11.626	1.00	38.89	A
ATOM	1148	C	ASN	A	139	15.051	-2.676	12.624	1.00	34.61	A
ATOM	1149	O	ASN	A	139	16.082	-2.011	12.530	1.00	35.91	A
ATOM	1150	N	TYR	A	140	14.491	-2.982	13.787	1.00	35.16	A
ATOM	1151	CA	TYR	A	140	15.078	-2.597	15.073	1.00	33.83	A
ATOM	1152	CB	TYR	A	140	15.019	-1.080	15.323	1.00	28.99	A
ATOM	1153	CG	TYR	A	140	13.628	-0.520	15.415	1.00	35.62	A
ATOM	1154	CD1	TYR	A	140	12.967	-0.066	14.285	1.00	39.35	A
ATOM	1155	CE1	TYR	A	140	11.649	0.386	14.349	1.00	31.56	A
ATOM	1156	CD2	TYR	A	140	12.948	-0.503	16.616	1.00	28.33	A
ATOM	1157	CE2	TYR	A	140	11.634	-0.055	16.698	1.00	34.19	A
ATOM	1158	CZ	TYR	A	140	10.986	0.382	15.561	1.00	36.16	A
ATOM	1159	OH	TYR	A	140	9.664	0.757	15.612	1.00	40.56	A
ATOM	1160	C	TYR	A	140	14.207	-3.288	16.073	1.00	34.08	A
ATOM	1161	O	TYR	A	140	13.052	-3.544	15.783	1.00	34.90	A
ATOM	1162	N	THR	A	141	14.746	-3.633	17.227	1.00	37.76	A
ATOM	1163	CA	THR	A	141	13.902	-4.255	18.227	1.00	38.56	A
ATOM	1164	CB	THR	A	141	14.457	-5.587	18.700	1.00	41.37	A
ATOM	1165	OG1	THR	A	141	15.180	-5.394	19.921	1.00	44.69	A
ATOM	1166	CG2	THR	A	141	15.358	-6.182	17.621	1.00	32.65	A
ATOM	1167	C	THR	A	141	13.905	-3.252	19.352	1.00	39.10	A
ATOM	1168	O	THR	A	141	14.418	-2.164	19.172	1.00	42.59	A
ATOM	1169	N	CYS	A	142	13.357	-3.590	20.507	1.00	37.29	A
ATOM	1170	CA	CYS	A	142	13.333	-2.604	21.583	1.00	38.63	A
ATOM	1171	C	CYS	A	142	13.758	-3.071	22.965	1.00	36.98	A
ATOM	1172	O	CYS	A	142	12.956	-3.637	23.707	1.00	41.98	A
ATOM	1173	CB	CYS	A	142	11.931	-1.977	21.704	1.00	35.70	A
ATOM	1174	SG	CYS	A	142	11.449	-0.800	20.399	1.00	37.29	A
ATOM	1175	N	SER	A	143	15.010	-2.821	23.322	1.00	38.16	A
ATOM	1176	CA	SER	A	143	15.478	-3.187	24.659	1.00	39.88	A
ATOM	1177	CB	SER	A	143	17.008	-3.117	24.725	1.00	47.55	A
ATOM	1178	OG	SER	A	143	17.604	-4.134	23.930	1.00	56.46	A
ATOM	1179	C	SER	A	143	14.848	-2.200	25.668	1.00	39.74	A
ATOM	1180	O	SER	A	143	15.395	-1.117	25.935	1.00	40.57	A
ATOM	1181	N	CYS	A	144	13.696	-2.586	26.221	1.00	39.97	A
ATOM	1182	CA	CYS	A	144	12.954	-1.748	27.165	1.00	47.36	A
ATOM	1183	C	CYS	A	144	13.695	-1.328	28.440	1.00	49.04	A
ATOM	1184	O	CYS	A	144	14.468	-2.101	29.035	1.00	48.99	A
ATOM	1185	CB	CYS	A	144	11.645	-2.444	27.584	1.00	40.37	A
ATOM	1186	SG	CYS	A	144	10.443	-2.814	26.257	1.00	44.01	A
ATOM	1187	N	TYR	A	145	13.450	-0.090	28.859	1.00	49.42	A

ATOM	1188	CA	TYR	A	145	14.048	0.405	30.090	1.00	57.45	A
ATOM	1189	CB	TYR	A	145	13.952	1.941	30.168	1.00	54.29	A
ATOM	1190	CG	TYR	A	145	14.828	2.657	29.154	1.00	55.82	A
ATOM	1191	CD1	TYR	A	145	16.176	2.314	29.001	1.00	49.93	A
ATOM	1192	CE1	TYR	A	145	16.991	2.967	28.062	1.00	55.31	A
ATOM	1193	CD2	TYR	A	145	14.314	3.675	28.342	1.00	54.17	A
ATOM	1194	CE2	TYR	A	145	15.123	4.337	27.394	1.00	54.95	A
ATOM	1195	CZ	TYR	A	145	16.459	3.976	27.263	1.00	57.17	A
ATOM	1196	OH	TYR	A	145	17.262	4.618	26.343	1.00	59.39	A
ATOM	1197	C	TYR	A	145	13.229	-0.257	31.207	1.00	59.82	A
ATOM	1198	O	TYR	A	145	12.039	-0.552	31.018	1.00	64.54	A
ATOM	1199	N	PRO	A	146	13.854	-0.514	32.373	1.00	59.35	A
ATOM	1200	CD	PRO	A	146	15.249	-0.176	32.707	1.00	58.94	A
ATOM	1201	CA	PRO	A	146	13.198	-1.145	33.524	1.00	56.69	A
ATOM	1202	CB	PRO	A	146	14.236	-1.000	34.631	1.00	58.22	A
ATOM	1203	CG	PRO	A	146	15.520	-1.086	33.889	1.00	60.63	A
ATOM	1204	C	PRO	A	146	11.888	-0.461	33.875	1.00	52.71	A
ATOM	1205	O	PRO	A	146	11.782	0.766	33.777	1.00	51.36	A
ATOM	1206	N	GLY	A	147	10.902	-1.260	34.290	1.00	49.48	A
ATOM	1207	CA	GLY	A	147	9.599	-0.719	34.641	1.00	45.98	A
ATOM	1208	C	GLY	A	147	8.731	-0.561	33.401	1.00	45.98	A
ATOM	1209	O	GLY	A	147	7.616	-0.027	33.464	1.00	47.10	A
ATOM	1210	N	PHE	A	148	9.249	-1.029	32.267	1.00	38.26	A
ATOM	1211	CA	PHE	A	148	8.543	-0.954	30.995	1.00	41.24	A
ATOM	1212	CB	PHE	A	148	9.135	0.142	30.129	1.00	45.29	A
ATOM	1213	CG	PHE	A	148	9.193	1.453	30.793	1.00	45.23	A
ATOM	1214	CD1	PHE	A	148	10.087	1.673	31.824	1.00	49.53	A
ATOM	1215	CD2	PHE	A	148	8.333	2.468	30.408	1.00	47.64	A
ATOM	1216	CE1	PHE	A	148	10.127	2.882	32.470	1.00	49.66	A
ATOM	1217	CE2	PHE	A	148	8.358	3.691	31.043	1.00	46.20	A
ATOM	1218	CZ	PHE	A	148	9.256	3.904	32.079	1.00	41.62	A
ATOM	1219	C	PHE	A	148	8.673	-2.255	30.230	1.00	40.32	A
ATOM	1220	O	PHE	A	148	9.693	-2.945	30.332	1.00	42.86	A
ATOM	1221	N	TYR	A	149	7.647	-2.595	29.457	1.00	40.15	A
ATOM	1222	CA	TYR	A	149	7.716	-3.800	28.647	1.00	37.99	A
ATOM	1223	CB	TYR	A	149	7.222	-5.035	29.417	1.00	36.39	A
ATOM	1224	CG	TYR	A	149	5.772	-5.030	29.850	1.00	38.80	A
ATOM	1225	CD1	TYR	A	149	5.324	-4.173	30.849	1.00	43.92	A
ATOM	1226	CE1	TYR	A	149	4.002	-4.219	31.302	1.00	37.77	A
ATOM	1227	CD2	TYR	A	149	4.865	-5.932	29.305	1.00	37.50	A
ATOM	1228	CE2	TYR	A	149	3.547	-5.987	29.745	1.00	36.68	A
ATOM	1229	CZ	TYR	A	149	3.120	-5.128	30.744	1.00	41.29	A
ATOM	1230	OH	TYR	A	149	1.815	-5.164	31.177	1.00	46.51	A
ATOM	1231	C	TYR	A	149	6.927	-3.636	27.371	1.00	40.53	A
ATOM	1232	O	TYR	A	149	6.488	-2.532	27.030	1.00	35.31	A
ATOM	1233	N	GLY	A	150	6.760	-4.744	26.661	1.00	36.28	A
ATOM	1234	CA	GLY	A	150	6.006	-4.707	25.427	1.00	37.13	A
ATOM	1235	C	GLY	A	150	6.938	-4.510	24.256	1.00	34.33	A
ATOM	1236	O	GLY	A	150	8.067	-4.034	24.436	1.00	31.46	A
ATOM	1237	N	PRO	A	151	6.498	-4.874	23.040	1.00	37.02	A
ATOM	1238	CD	PRO	A	151	5.142	-5.350	22.729	1.00	34.69	A
ATOM	1239	CA	PRO	A	151	7.286	-4.744	21.814	1.00	40.05	A
ATOM	1240	CB	PRO	A	151	6.323	-5.254	20.744	1.00	40.32	A
ATOM	1241	CG	PRO	A	151	4.984	-4.898	21.307	1.00	42.34	A
ATOM	1242	C	PRO	A	151	7.782	-3.315	21.554	1.00	35.81	A
ATOM	1243	O	PRO	A	151	8.853	-3.113	20.976	1.00	29.27	A
ATOM	1244	N	GLU	A	152	7.002	-2.325	21.967	1.00	31.38	A
ATOM	1245	CA	GLU	A	152	7.423	-0.944	21.791	1.00	38.74	A
ATOM	1246	CB	GLU	A	152	6.336	-0.106	21.106	1.00	31.06	A
ATOM	1247	CG	GLU	A	152	6.131	-0.356	19.597	1.00	32.02	A
ATOM	1248	CD	GLU	A	152	7.327	0.058	18.761	1.00	37.81	A
ATOM	1249	OE1	GLU	A	152	8.027	0.998	19.181	1.00	36.65	A
ATOM	1250	OE2	GLU	A	152	7.554	-0.544	17.688	1.00	43.13	A
ATOM	1251	C	GLU	A	152	7.672	-0.381	23.175	1.00	39.52	A
ATOM	1252	O	GLU	A	152	7.883	0.825	23.330	1.00	38.10	A
ATOM	1253	N	CYS	A	153	7.667	-1.266	24.175	1.00	37.19	A

ATOM	1254	CA	CYS	A	153	7.839	-0.853	25.559	1.00	40.85	A
ATOM	1255	C	CYS	A	153	6.735	0.158	25.694	1.00	39.78	A
ATOM	1256	O	CYS	A	153	6.973	1.297	26.116	1.00	41.05	A
ATOM	1257	CB	CYS	A	153	9.170	-0.166	25.761	1.00	32.26	A
ATOM	1258	SG	CYS	A	153	10.497	-1.168	25.067	1.00	38.02	A
ATOM	1259	N	GLU	A	154	5.537	-0.254	25.273	1.00	41.58	A
ATOM	1260	CA	GLU	A	154	4.357	0.601	25.314	1.00	46.19	A
ATOM	1261	CB	GLU	A	154	3.435	0.316	24.116	1.00	43.27	A
ATOM	1262	CG	GLU	A	154	2.966	-1.135	23.944	1.00	49.12	A
ATOM	1263	CD	GLU	A	154	3.871	-1.977	23.033	1.00	51.57	A
ATOM	1264	OE1	GLU	A	154	4.947	-2.441	23.496	1.00	48.38	A
ATOM	1265	OE2	GLU	A	154	3.495	-2.170	21.848	1.00	52.59	A
ATOM	1266	C	GLU	A	154	3.640	0.320	26.611	1.00	47.35	A
ATOM	1267	O	GLU	A	154	2.634	0.954	26.942	1.00	49.11	A
ATOM	1268	N	TYR	A	155	4.195	-0.632	27.352	1.00	44.83	A
ATOM	1269	CA	TYR	A	155	3.640	-1.032	28.629	1.00	43.30	A
ATOM	1270	CB	TYR	A	155	3.458	-2.556	28.633	1.00	44.84	A
ATOM	1271	CG	TYR	A	155	2.490	-2.996	27.566	1.00	46.09	A
ATOM	1272	CD1	TYR	A	155	1.277	-2.332	27.406	1.00	46.07	A
ATOM	1273	CE1	TYR	A	155	0.393	-2.664	26.390	1.00	51.16	A
ATOM	1274	CD2	TYR	A	155	2.799	-4.022	26.682	1.00	39.13	A
ATOM	1275	CE2	TYR	A	155	1.913	-4.368	25.653	1.00	45.05	A
ATOM	1276	CZ	TYR	A	155	0.708	-3.677	25.515	1.00	49.86	A
ATOM	1277	OH	TYR	A	155	-0.187	-3.974	24.506	1.00	55.35	A
ATOM	1278	C	TYR	A	155	4.476	-0.566	29.826	1.00	40.39	A
ATOM	1279	O	TYR	A	155	5.710	-0.707	29.842	1.00	39.73	A
ATOM	1280	N	VAL	A	156	3.788	0.006	30.817	1.00	40.72	A
ATOM	1281	CA	VAL	A	156	4.433	0.492	32.040	1.00	43.86	A
ATOM	1282	CB	VAL	A	156	4.026	1.927	32.398	1.00	51.16	A
ATOM	1283	CG1	VAL	A	156	5.272	2.721	32.769	1.00	47.61	A
ATOM	1284	CG2	VAL	A	156	3.229	2.569	31.253	1.00	45.30	A
ATOM	1285	C	VAL	A	156	4.053	-0.360	33.237	1.00	44.87	A
ATOM	1286	O	VAL	A	156	2.886	-0.414	33.643	1.00	43.59	A
ATOM	1287	N	ARG	A	157	5.056	-1.011	33.805	1.00	46.44	A
ATOM	1288	CA	ARG	A	157	4.865	-1.867	34.964	1.00	49.04	A
ATOM	1289	CB	ARG	A	157	6.211	-2.498	35.330	1.00	47.50	A
ATOM	1290	CG	ARG	A	157	6.627	-3.607	34.368	1.00	49.10	A
ATOM	1291	CD	ARG	A	157	5.744	-4.808	34.622	1.00	48.59	A
ATOM	1292	NE	ARG	A	157	5.675	-4.999	36.067	1.00	49.51	A
ATOM	1293	CZ	ARG	A	157	6.627	-5.583	36.786	1.00	48.90	A
ATOM	1294	NH1	ARG	A	157	7.728	-6.061	36.196	1.00	42.71	A
ATOM	1295	NH2	ARG	A	157	6.491	-5.653	38.104	1.00	46.22	A
ATOM	1296	C	ARG	A	157	4.270	-1.114	36.167	1.00	53.96	A
ATOM	1297	O	ARG	A	157	4.210	0.127	36.172	1.00	53.94	A
ATOM	1298	N	ASP	A	158	3.810	-1.865	37.170	1.00	56.44	A
ATOM	1299	CA	ASP	A	158	3.246	-1.257	38.368	1.00	63.44	A
ATOM	1300	CB	ASP	A	158	1.848	-1.813	38.676	1.00	58.98	A
ATOM	1301	CG	ASP	A	158	0.810	-1.449	37.619	1.00	58.48	A
ATOM	1302	OD1	ASP	A	158	0.902	-0.355	37.015	1.00	61.87	A
ATOM	1303	OD2	ASP	A	158	-0.120	-2.260	37.409	1.00	60.54	A
ATOM	1304	C	ASP	A	158	4.157	-1.506	39.569	1.00	66.01	A
ATOM	1305	O	ASP	A	158	4.711	-0.563	40.142	1.00	69.91	A
ATOM	1306	N	ALA	A	159	4.322	-2.776	39.938	1.00	72.41	A
ATOM	1307	CA	ALA	A	159	5.148	-3.152	41.091	1.00	76.09	A
ATOM	1308	CB	ALA	A	159	4.417	-4.192	41.932	1.00	74.08	A
ATOM	1309	C	ALA	A	159	6.524	-3.683	40.709	1.00	78.42	A
ATOM	1310	O	ALA	A	159	6.775	-4.889	40.800	1.00	77.23	A
ATOM	1311	N	ALA	A	160	7.416	-2.775	40.307	1.00	83.81	A
ATOM	1312	CA	ALA	A	160	8.780	-3.135	39.895	1.00	85.54	A
ATOM	1313	CB	ALA	A	160	9.153	-2.376	38.600	1.00	86.98	A
ATOM	1314	C	ALA	A	160	9.845	-2.892	40.980	1.00	87.21	A
ATOM	1315	O	ALA	A	160	10.742	-2.049	40.759	1.00	87.39	A
ATOM	1316	OXT	ALA	A	160	9.778	-3.552	42.043	1.00	90.60	A
ATOM	1317	CB	TRP	B	1	58.931	12.426	64.714	1.00	52.94	B
ATOM	1318	CG	TRP	B	1	58.277	12.874	63.436	1.00	51.26	B
ATOM	1319	CD2	TRP	B	1	57.452	12.087	62.573	1.00	45.90	B

PDB entry 3cs2

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ATOM   1320  CE2 TRP B   1      57.151  12.875  61.443  1.00 50.26      B
ATOM   1321  CE3 TRP B   1      56.942  10.789  62.638  1.00 50.33      B
ATOM   1322  CD1 TRP B   1      58.430  14.078  62.814  1.00 46.21      B
ATOM   1323  NE1 TRP B   1      57.761  14.087  61.615  1.00 48.86      B
ATOM   1324  CZ2 TRP B   1      56.361  12.407  60.391  1.00 48.12      B
ATOM   1325  CZ3 TRP B   1      56.152  10.325  61.579  1.00 56.43      B
ATOM   1326  CH2 TRP B   1      55.873  11.133  60.478  1.00 55.66      B
ATOM   1327  C   TRP B   1      59.977  14.484  65.772  1.00 46.62      B
ATOM   1328  O   TRP B   1      59.706  15.657  65.515  1.00 48.95      B
ATOM   1329  N   TRP B   1      57.496  14.018  65.910  1.00 50.34      B
ATOM   1330  CA  TRP B   1      58.857  13.428  65.872  1.00 45.92      B
ATOM   1331  N   THR B   2      61.225  14.068  65.998  1.00 47.48      B
ATOM   1332  CA  THR B   2      62.374  14.975  65.929  1.00 42.28      B
ATOM   1333  CB  THR B   2      63.241  14.919  67.202  1.00 47.93      B
ATOM   1334  OG1 THR B   2      62.568  14.192  68.233  1.00 55.47      B
ATOM   1335  CG2 THR B   2      63.520  16.319  67.693  1.00 48.39      B
ATOM   1336  C   THR B   2      63.278  14.632  64.752  1.00 50.41      B
ATOM   1337  O   THR B   2      63.568  13.469  64.504  1.00 53.68      B
ATOM   1338  N   TYR B   3      63.757  15.649  64.051  1.00 48.82      B
ATOM   1339  CA  TYR B   3      64.595  15.426  62.878  1.00 52.09      B
ATOM   1340  CB  TYR B   3      64.255  16.482  61.825  1.00 47.32      B
ATOM   1341  CG  TYR B   3      62.793  16.459  61.419  1.00 47.44      B
ATOM   1342  CD1 TYR B   3      62.215  15.299  60.926  1.00 52.12      B
ATOM   1343  CE1 TYR B   3      60.878  15.259  60.581  1.00 44.41      B
ATOM   1344  CD2 TYR B   3      61.985  17.589  61.553  1.00 50.58      B
ATOM   1345  CE2 TYR B   3      60.643  17.554  61.208  1.00 48.40      B
ATOM   1346  CZ  TYR B   3      60.097  16.382  60.724  1.00 47.11      B
ATOM   1347  OH  TYR B   3      58.768  16.307  60.383  1.00 47.63      B
ATOM   1348  C   TYR B   3      66.108  15.385  63.120  1.00 54.76      B
ATOM   1349  O   TYR B   3      66.636  16.134  63.940  1.00 55.20      B
ATOM   1350  N   HIS B   4      66.802  14.508  62.391  1.00 52.73      B
ATOM   1351  CA  HIS B   4      68.253  14.351  62.526  1.00 52.23      B
ATOM   1352  CB  HIS B   4      68.559  13.248  63.531  1.00 56.28      B
ATOM   1353  CG  HIS B   4      67.755  13.336  64.786  1.00 55.33      B
ATOM   1354  CD2 HIS B   4      66.579  12.760  65.128  1.00 54.21      B
ATOM   1355  ND1 HIS B   4      68.124  14.127  65.853  1.00 46.54      B
ATOM   1356  CE1 HIS B   4      67.208  14.035  66.799  1.00 55.01      B
ATOM   1357  NE2 HIS B   4      66.261  13.213  66.383  1.00 55.95      B
ATOM   1358  C   HIS B   4      68.898  13.971  61.198  1.00 54.11      B
ATOM   1359  O   HIS B   4      68.274  13.307  60.370  1.00 54.53      B
ATOM   1360  N   TYR B   5      70.151  14.378  61.005  1.00 51.96      B
ATOM   1361  CA  TYR B   5      70.866  14.058  59.773  1.00 55.35      B
ATOM   1362  CB  TYR B   5      70.918  15.261  58.836  1.00 47.79      B
ATOM   1363  CG  TYR B   5      71.638  16.461  59.409  1.00 57.48      B
ATOM   1364  CD1 TYR B   5      70.924  17.528  59.936  1.00 63.10      B
ATOM   1365  CE1 TYR B   5      71.575  18.649  60.448  1.00 55.59      B
ATOM   1366  CD2 TYR B   5      73.033  16.536  59.410  1.00 59.32      B
ATOM   1367  CE2 TYR B   5      73.698  17.653  59.923  1.00 61.39      B
ATOM   1368  CZ  TYR B   5      72.961  18.711  60.441  1.00 60.53      B
ATOM   1369  OH  TYR B   5      73.581  19.846  60.937  1.00 65.72      B
ATOM   1370  C   TYR B   5      72.282  13.620  60.073  1.00 55.11      B
ATOM   1371  O   TYR B   5      72.790  13.865  61.169  1.00 59.34      B
ATOM   1372  N   SER B   6      72.918  13.004  59.076  1.00 55.54      B
ATOM   1373  CA  SER B   6      74.283  12.488  59.184  1.00 56.15      B
ATOM   1374  CB  SER B   6      74.349  11.132  58.496  1.00 51.43      B
ATOM   1375  OG  SER B   6      73.807  11.228  57.193  1.00 63.79      B
ATOM   1376  C   SER B   6      75.362  13.389  58.583  1.00 60.45      B
ATOM   1377  O   SER B   6      75.401  13.585  57.371  1.00 60.21      B
ATOM   1378  N   THR B   7      76.253  13.912  59.421  1.00 57.73      B
ATOM   1379  CA  THR B   7      77.325  14.788  58.938  1.00 56.69      B
ATOM   1380  CB  THR B   7      78.377  15.066  60.038  1.00 59.13      B
ATOM   1381  OG1 THR B   7      78.389  13.986  60.989  1.00 54.52      B
ATOM   1382  CG2 THR B   7      78.076  16.391  60.731  1.00 53.73      B
ATOM   1383  C   THR B   7      78.041  14.253  57.699  1.00 54.84      B
ATOM   1384  O   THR B   7      78.256  14.981  56.739  1.00 55.18      B
ATOM   1385  N   LYS B   8      78.419  12.982  57.730  1.00 48.47      B
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ATOM	1386	CA	LYS	B	8	79.092	12.353	56.599	1.00	53.98	B
ATOM	1387	CB	LYS	B	8	80.106	11.310	57.093	1.00	55.77	B
ATOM	1388	CG	LYS	B	8	81.110	11.840	58.111	1.00	59.66	B
ATOM	1389	CD	LYS	B	8	82.014	12.933	57.528	1.00	70.60	B
ATOM	1390	CE	LYS	B	8	83.237	12.370	56.786	1.00	70.32	B
ATOM	1391	NZ	LYS	B	8	82.917	11.539	55.577	1.00	73.65	B
ATOM	1392	C	LYS	B	8	77.981	11.668	55.812	1.00	55.51	B
ATOM	1393	O	LYS	B	8	76.886	11.482	56.352	1.00	55.89	B
ATOM	1394	N	ALA	B	9	78.250	11.300	54.554	1.00	52.20	B
ATOM	1395	CA	ALA	B	9	77.252	10.628	53.706	1.00	50.65	B
ATOM	1396	CB	ALA	B	9	77.060	11.396	52.408	1.00	50.10	B
ATOM	1397	C	ALA	B	9	77.598	9.177	53.387	1.00	53.25	B
ATOM	1398	O	ALA	B	9	78.726	8.863	52.994	1.00	50.68	B
ATOM	1399	N	TYR	B	10	76.613	8.299	53.556	1.00	48.65	B
ATOM	1400	CA	TYR	B	10	76.782	6.873	53.278	1.00	51.63	B
ATOM	1401	CB	TYR	B	10	76.690	6.033	54.558	1.00	56.54	B
ATOM	1402	CG	TYR	B	10	77.282	6.628	55.821	1.00	60.51	B
ATOM	1403	CD1	TYR	B	10	78.643	6.890	55.938	1.00	55.93	B
ATOM	1404	CE1	TYR	B	10	79.184	7.364	57.137	1.00	58.55	B
ATOM	1405	CD2	TYR	B	10	76.478	6.863	56.928	1.00	55.17	B
ATOM	1406	CE2	TYR	B	10	77.005	7.336	58.122	1.00	60.10	B
ATOM	1407	CZ	TYR	B	10	78.356	7.580	58.227	1.00	60.39	B
ATOM	1408	OH	TYR	B	10	78.865	8.000	59.439	1.00	54.94	B
ATOM	1409	C	TYR	B	10	75.651	6.436	52.343	1.00	56.09	B
ATOM	1410	O	TYR	B	10	74.755	7.226	52.031	1.00	57.92	B
ATOM	1411	N	SER	B	11	75.687	5.173	51.918	1.00	52.33	B
ATOM	1412	CA	SER	B	11	74.672	4.626	51.016	1.00	51.98	B
ATOM	1413	CB	SER	B	11	74.918	3.131	50.779	1.00	52.43	B
ATOM	1414	OG	SER	B	11	74.732	2.389	51.966	1.00	45.30	B
ATOM	1415	C	SER	B	11	73.261	4.836	51.549	1.00	54.04	B
ATOM	1416	O	SER	B	11	72.993	5.820	52.226	1.00	51.40	B
ATOM	1417	N	TRP	B	12	72.353	3.920	51.239	1.00	53.67	B
ATOM	1418	CA	TRP	B	12	70.987	4.063	51.716	1.00	49.77	B
ATOM	1419	CB	TRP	B	12	69.969	3.887	50.589	1.00	52.54	B
ATOM	1420	CG	TRP	B	12	68.525	4.079	51.045	1.00	46.05	B
ATOM	1421	CD2	TRP	B	12	67.663	3.080	51.598	1.00	47.16	B
ATOM	1422	CE2	TRP	B	12	66.435	3.706	51.898	1.00	50.10	B
ATOM	1423	CE3	TRP	B	12	67.811	1.716	51.870	1.00	47.62	B
ATOM	1424	CD1	TRP	B	12	67.798	5.244	51.035	1.00	47.63	B
ATOM	1425	NE1	TRP	B	12	66.543	5.024	51.542	1.00	49.33	B
ATOM	1426	CZ2	TRP	B	12	65.359	3.012	52.460	1.00	47.45	B
ATOM	1427	CZ3	TRP	B	12	66.739	1.024	52.427	1.00	52.85	B
ATOM	1428	CH2	TRP	B	12	65.527	1.677	52.717	1.00	53.56	B
ATOM	1429	C	TRP	B	12	70.700	3.043	52.782	1.00	52.80	B
ATOM	1430	O	TRP	B	12	69.872	3.276	53.654	1.00	59.31	B
ATOM	1431	N	ASN	B	13	71.372	1.903	52.706	1.00	54.23	B
ATOM	1432	CA	ASN	B	13	71.168	0.849	53.695	1.00	53.77	B
ATOM	1433	CB	ASN	B	13	71.584	-0.501	53.117	1.00	56.52	B
ATOM	1434	CG	ASN	B	13	70.715	-0.914	51.955	1.00	67.85	B
ATOM	1435	OD1	ASN	B	13	69.535	-1.240	52.135	1.00	64.49	B
ATOM	1436	ND2	ASN	B	13	71.284	-0.885	50.746	1.00	71.63	B
ATOM	1437	C	ASN	B	13	71.976	1.171	54.940	1.00	52.65	B
ATOM	1438	O	ASN	B	13	71.605	0.798	56.055	1.00	52.83	B
ATOM	1439	N	ILE	B	14	73.089	1.864	54.739	1.00	49.89	B
ATOM	1440	CA	ILE	B	14	73.909	2.263	55.857	1.00	49.10	B
ATOM	1441	CB	ILE	B	14	75.305	2.778	55.397	1.00	44.17	B
ATOM	1442	CG2	ILE	B	14	76.025	3.493	56.541	1.00	44.97	B
ATOM	1443	CG1	ILE	B	14	76.155	1.605	54.908	1.00	44.23	B
ATOM	1444	CD1	ILE	B	14	76.388	0.525	55.948	1.00	47.59	B
ATOM	1445	C	ILE	B	14	73.127	3.388	56.520	1.00	50.92	B
ATOM	1446	O	ILE	B	14	72.821	3.338	57.718	1.00	50.78	B
ATOM	1447	N	SER	B	15	72.771	4.390	55.720	1.00	50.10	B
ATOM	1448	CA	SER	B	15	72.030	5.534	56.227	1.00	46.19	B
ATOM	1449	CB	SER	B	15	71.698	6.505	55.090	1.00	49.37	B
ATOM	1450	OG	SER	B	15	72.873	7.160	54.640	1.00	52.76	B
ATOM	1451	C	SER	B	15	70.773	5.127	56.990	1.00	45.52	B

ATOM	1452	O	SER	B	15	70.312	5.884	57.846	1.00	45.74	B
ATOM	1453	N	ARG	B	16	70.217	3.946	56.705	1.00	45.78	B
ATOM	1454	CA	ARG	B	16	69.034	3.507	57.454	1.00	52.26	B
ATOM	1455	CB	ARG	B	16	68.180	2.492	56.709	1.00	51.96	B
ATOM	1456	CG	ARG	B	16	66.973	2.167	57.560	1.00	50.68	B
ATOM	1457	CD	ARG	B	16	66.044	1.169	56.962	1.00	48.36	B
ATOM	1458	NE	ARG	B	16	64.809	1.115	57.733	1.00	48.93	B
ATOM	1459	CZ	ARG	B	16	63.933	0.123	57.657	1.00	59.51	B
ATOM	1460	NH1	ARG	B	16	64.158	-0.903	56.846	1.00	59.15	B
ATOM	1461	NH2	ARG	B	16	62.830	0.155	58.390	1.00	52.99	B
ATOM	1462	C	ARG	B	16	69.438	2.874	58.774	1.00	57.01	B
ATOM	1463	O	ARG	B	16	68.705	2.956	59.762	1.00	56.60	B
ATOM	1464	N	LYS	B	17	70.591	2.214	58.774	1.00	49.81	B
ATOM	1465	CA	LYS	B	17	71.098	1.609	59.987	1.00	55.35	B
ATOM	1466	CB	LYS	B	17	72.384	0.833	59.691	1.00	57.53	B
ATOM	1467	CG	LYS	B	17	72.732	-0.203	60.747	1.00	67.10	B
ATOM	1468	CD	LYS	B	17	74.065	-0.904	60.485	1.00	74.49	B
ATOM	1469	CE	LYS	B	17	74.360	-1.918	61.602	1.00	78.43	B
ATOM	1470	NZ	LYS	B	17	75.742	-2.506	61.579	1.00	80.59	B
ATOM	1471	C	LYS	B	17	71.385	2.828	60.860	1.00	50.87	B
ATOM	1472	O	LYS	B	17	70.922	2.937	61.999	1.00	52.56	B
ATOM	1473	N	TYR	B	18	72.117	3.769	60.282	1.00	46.08	B
ATOM	1474	CA	TYR	B	18	72.474	4.992	60.980	1.00	40.76	B
ATOM	1475	CB	TYR	B	18	72.932	6.052	59.987	1.00	42.81	B
ATOM	1476	CG	TYR	B	18	73.371	7.347	60.622	1.00	46.53	B
ATOM	1477	CD1	TYR	B	18	72.447	8.241	61.141	1.00	50.18	B
ATOM	1478	CE1	TYR	B	18	72.854	9.438	61.725	1.00	49.86	B
ATOM	1479	CD2	TYR	B	18	74.720	7.678	60.701	1.00	50.96	B
ATOM	1480	CE2	TYR	B	18	75.139	8.869	61.284	1.00	50.38	B
ATOM	1481	CZ	TYR	B	18	74.202	9.746	61.794	1.00	52.26	B
ATOM	1482	OH	TYR	B	18	74.613	10.924	62.377	1.00	47.50	B
ATOM	1483	C	TYR	B	18	71.326	5.549	61.791	1.00	50.03	B
ATOM	1484	O	TYR	B	18	71.474	5.826	62.981	1.00	61.49	B
ATOM	1485	N	CYS	B	19	70.184	5.711	61.134	1.00	48.43	B
ATOM	1486	CA	CYS	B	19	69.001	6.270	61.777	1.00	51.96	B
ATOM	1487	C	CYS	B	19	68.380	5.429	62.875	1.00	48.09	B
ATOM	1488	O	CYS	B	19	68.012	5.950	63.925	1.00	48.62	B
ATOM	1489	CB	CYS	B	19	67.920	6.584	60.741	1.00	46.41	B
ATOM	1490	SG	CYS	B	19	68.280	8.018	59.688	1.00	49.42	B
ATOM	1491	N	GLN	B	20	68.247	4.133	62.640	1.00	51.23	B
ATOM	1492	CA	GLN	B	20	67.628	3.272	63.637	1.00	53.90	B
ATOM	1493	CB	GLN	B	20	67.361	1.889	63.036	1.00	48.63	B
ATOM	1494	CG	GLN	B	20	66.320	1.879	61.928	1.00	54.36	B
ATOM	1495	CD	GLN	B	20	66.361	0.611	61.121	1.00	51.69	B
ATOM	1496	OE1	GLN	B	20	67.391	0.273	60.534	1.00	60.20	B
ATOM	1497	NE2	GLN	B	20	65.243	-0.107	61.086	1.00	49.94	B
ATOM	1498	C	GLN	B	20	68.506	3.149	64.870	1.00	57.04	B
ATOM	1499	O	GLN	B	20	68.022	3.190	66.013	1.00	54.47	B
ATOM	1500	N	ASN	B	21	69.803	3.014	64.630	1.00	55.92	B
ATOM	1501	CA	ASN	B	21	70.741	2.875	65.718	1.00	59.79	B
ATOM	1502	CB	ASN	B	21	72.158	2.747	65.171	1.00	61.31	B
ATOM	1503	CG	ASN	B	21	72.399	1.415	64.502	1.00	71.95	B
ATOM	1504	OD1	ASN	B	21	73.496	1.139	64.024	1.00	74.74	B
ATOM	1505	ND2	ASN	B	21	71.370	0.575	64.468	1.00	69.21	B
ATOM	1506	C	ASN	B	21	70.671	4.018	66.715	1.00	61.95	B
ATOM	1507	O	ASN	B	21	70.830	3.797	67.913	1.00	55.92	B
ATOM	1508	N	ARG	B	22	70.416	5.230	66.223	1.00	61.32	B
ATOM	1509	CA	ARG	B	22	70.353	6.429	67.069	1.00	56.82	B
ATOM	1510	CB	ARG	B	22	71.109	7.590	66.406	1.00	60.97	B
ATOM	1511	CG	ARG	B	22	72.587	7.368	66.220	1.00	58.48	B
ATOM	1512	CD	ARG	B	22	73.269	8.613	65.710	1.00	61.96	B
ATOM	1513	NE	ARG	B	22	74.557	8.839	66.368	1.00	82.33	B
ATOM	1514	CZ	ARG	B	22	75.525	7.928	66.487	1.00	87.19	B
ATOM	1515	NH1	ARG	B	22	76.656	8.243	67.103	1.00	85.94	B
ATOM	1516	NH2	ARG	B	22	75.370	6.701	66.002	1.00	85.34	B
ATOM	1517	C	ARG	B	22	68.947	6.914	67.372	1.00	53.15	B

ATOM	1518	O	ARG	B	22	68.660	7.378	68.474	1.00	52.36	B
ATOM	1519	N	TYR	B	23	68.085	6.817	66.371	1.00	57.18	B
ATOM	1520	CA	TYR	B	23	66.713	7.275	66.480	1.00	50.49	B
ATOM	1521	CB	TYR	B	23	66.550	8.508	65.604	1.00	47.36	B
ATOM	1522	CG	TYR	B	23	67.791	9.357	65.632	1.00	48.78	B
ATOM	1523	CD1	TYR	B	23	68.075	10.174	66.716	1.00	53.31	B
ATOM	1524	CE1	TYR	B	23	69.255	10.918	66.771	1.00	48.62	B
ATOM	1525	CD2	TYR	B	23	68.716	9.300	64.598	1.00	45.48	B
ATOM	1526	CE2	TYR	B	23	69.896	10.035	64.640	1.00	44.09	B
ATOM	1527	CZ	TYR	B	23	70.162	10.845	65.730	1.00	45.63	B
ATOM	1528	OH	TYR	B	23	71.319	11.592	65.770	1.00	49.94	B
ATOM	1529	C	TYR	B	23	65.740	6.183	66.065	1.00	50.89	B
ATOM	1530	O	TYR	B	23	65.917	5.015	66.431	1.00	50.66	B
ATOM	1531	N	THR	B	24	64.725	6.554	65.293	1.00	52.03	B
ATOM	1532	CA	THR	B	24	63.731	5.588	64.868	1.00	48.69	B
ATOM	1533	CB	THR	B	24	62.331	6.162	65.025	1.00	51.77	B
ATOM	1534	OG1	THR	B	24	62.010	6.221	66.415	1.00	45.73	B
ATOM	1535	CG2	THR	B	24	61.318	5.289	64.340	1.00	49.22	B
ATOM	1536	C	THR	B	24	63.890	5.048	63.459	1.00	51.18	B
ATOM	1537	O	THR	B	24	63.604	3.878	63.220	1.00	52.32	B
ATOM	1538	N	ASP	B	25	64.344	5.881	62.529	1.00	52.18	B
ATOM	1539	CA	ASP	B	25	64.521	5.438	61.148	1.00	48.51	B
ATOM	1540	CB	ASP	B	25	63.251	4.760	60.659	1.00	53.00	B
ATOM	1541	CG	ASP	B	25	63.476	3.331	60.253	1.00	54.24	B
ATOM	1542	OD1	ASP	B	25	64.188	3.104	59.253	1.00	57.12	B
ATOM	1543	OD2	ASP	B	25	62.937	2.435	60.937	1.00	49.22	B
ATOM	1544	C	ASP	B	25	64.819	6.614	60.245	1.00	53.48	B
ATOM	1545	O	ASP	B	25	65.039	7.726	60.720	1.00	51.95	B
ATOM	1546	N	LEU	B	26	64.841	6.366	58.941	1.00	49.85	B
ATOM	1547	CA	LEU	B	26	65.074	7.436	57.980	1.00	48.46	B
ATOM	1548	CB	LEU	B	26	65.231	6.859	56.583	1.00	44.29	B
ATOM	1549	CG	LEU	B	26	66.593	6.250	56.264	1.00	42.57	B
ATOM	1550	CD1	LEU	B	26	66.453	5.297	55.099	1.00	41.03	B
ATOM	1551	CD2	LEU	B	26	67.610	7.347	55.967	1.00	41.20	B
ATOM	1552	C	LEU	B	26	63.801	8.253	58.066	1.00	48.41	B
ATOM	1553	O	LEU	B	26	62.809	7.741	58.567	1.00	47.62	B
ATOM	1554	N	VAL	B	27	63.800	9.499	57.594	1.00	44.74	B
ATOM	1555	CA	VAL	B	27	62.579	10.302	57.687	1.00	47.31	B
ATOM	1556	CB	VAL	B	27	62.648	11.621	56.897	1.00	41.88	B
ATOM	1557	CG1	VAL	B	27	63.298	12.679	57.720	1.00	60.21	B
ATOM	1558	CG2	VAL	B	27	63.392	11.422	55.624	1.00	39.77	B
ATOM	1559	C	VAL	B	27	61.361	9.573	57.180	1.00	45.56	B
ATOM	1560	O	VAL	B	27	61.407	8.400	56.804	1.00	47.60	B
ATOM	1561	N	ALA	B	28	60.257	10.292	57.202	1.00	42.10	B
ATOM	1562	CA	ALA	B	28	58.977	9.809	56.720	1.00	47.74	B
ATOM	1563	CB	ALA	B	28	58.313	8.922	57.736	1.00	43.68	B
ATOM	1564	C	ALA	B	28	58.295	11.135	56.668	1.00	48.95	B
ATOM	1565	O	ALA	B	28	58.469	11.924	57.598	1.00	43.94	B
ATOM	1566	N	ILE	B	29	57.585	11.436	55.587	1.00	53.16	B
ATOM	1567	CA	ILE	B	29	56.903	12.716	55.548	1.00	54.36	B
ATOM	1568	CB	ILE	B	29	57.330	13.575	54.359	1.00	50.31	B
ATOM	1569	CG2	ILE	B	29	56.676	14.951	54.481	1.00	55.91	B
ATOM	1570	CG1	ILE	B	29	58.859	13.709	54.341	1.00	53.58	B
ATOM	1571	CD1	ILE	B	29	59.397	14.703	53.339	1.00	50.33	B
ATOM	1572	C	ILE	B	29	55.414	12.467	55.523	1.00	57.84	B
ATOM	1573	O	ILE	B	29	54.942	11.480	54.961	1.00	60.37	B
ATOM	1574	N	GLN	B	30	54.672	13.353	56.163	1.00	58.83	B
ATOM	1575	CA	GLN	B	30	53.243	13.169	56.246	1.00	57.88	B
ATOM	1576	CB	GLN	B	30	52.791	13.289	57.701	1.00	55.76	B
ATOM	1577	CG	GLN	B	30	53.546	12.417	58.680	1.00	60.63	B
ATOM	1578	CD	GLN	B	30	52.803	12.250	59.993	1.00	61.48	B
ATOM	1579	OE1	GLN	B	30	51.933	11.373	60.137	1.00	56.29	B
ATOM	1580	NE2	GLN	B	30	53.127	13.104	60.960	1.00	60.41	B
ATOM	1581	C	GLN	B	30	52.481	14.170	55.413	1.00	54.87	B
ATOM	1582	O	GLN	B	30	51.537	13.819	54.707	1.00	56.71	B
ATOM	1583	N	ASN	B	31	52.891	15.425	55.511	1.00	54.35	B

ATOM	1584	CA	ASN	B	31	52.227	16.488	54.786	1.00	53.23	B
ATOM	1585	CB	ASN	B	31	51.365	17.294	55.744	1.00	48.77	B
ATOM	1586	CG	ASN	B	31	52.167	17.862	56.891	1.00	55.69	B
ATOM	1587	OD1	ASN	B	31	52.998	18.759	56.712	1.00	54.61	B
ATOM	1588	ND2	ASN	B	31	51.933	17.333	58.080	1.00	62.35	B
ATOM	1589	C	ASN	B	31	53.250	17.399	54.153	1.00	49.51	B
ATOM	1590	O	ASN	B	31	54.435	17.071	54.072	1.00	52.03	B
ATOM	1591	N	LYS	B	32	52.780	18.558	53.722	1.00	52.83	B
ATOM	1592	CA	LYS	B	32	53.639	19.534	53.096	1.00	50.02	B
ATOM	1593	CB	LYS	B	32	52.796	20.546	52.335	1.00	52.84	B
ATOM	1594	CG	LYS	B	32	52.185	19.967	51.091	1.00	56.05	B
ATOM	1595	CD	LYS	B	32	53.272	19.447	50.165	1.00	53.97	B
ATOM	1596	CE	LYS	B	32	52.670	18.842	48.920	1.00	59.22	B
ATOM	1597	NZ	LYS	B	32	51.676	17.803	49.264	1.00	54.61	B
ATOM	1598	C	LYS	B	32	54.510	20.263	54.089	1.00	51.76	B
ATOM	1599	O	LYS	B	32	55.716	20.380	53.896	1.00	54.02	B
ATOM	1600	N	ASN	B	33	53.895	20.754	55.154	1.00	50.81	B
ATOM	1601	CA	ASN	B	33	54.625	21.510	56.154	1.00	53.21	B
ATOM	1602	CB	ASN	B	33	53.805	21.621	57.432	1.00	56.75	B
ATOM	1603	CG	ASN	B	33	52.688	22.621	57.298	1.00	59.58	B
ATOM	1604	OD1	ASN	B	33	52.892	23.726	56.768	1.00	53.28	B
ATOM	1605	ND2	ASN	B	33	51.498	22.253	57.771	1.00	57.92	B
ATOM	1606	C	ASN	B	33	55.990	20.953	56.470	1.00	53.59	B
ATOM	1607	O	ASN	B	33	57.000	21.668	56.408	1.00	48.80	B
ATOM	1608	N	GLU	B	34	56.017	19.673	56.812	1.00	51.84	B
ATOM	1609	CA	GLU	B	34	57.265	19.024	57.154	1.00	51.05	B
ATOM	1610	CB	GLU	B	34	57.040	17.525	57.306	1.00	50.79	B
ATOM	1611	CG	GLU	B	34	56.171	17.127	58.483	1.00	46.02	B
ATOM	1612	CD	GLU	B	34	55.666	15.713	58.327	1.00	51.22	B
ATOM	1613	OE1	GLU	B	34	56.407	14.919	57.710	1.00	48.92	B
ATOM	1614	OE2	GLU	B	34	54.553	15.396	58.811	1.00	51.92	B
ATOM	1615	C	GLU	B	34	58.295	19.301	56.075	1.00	56.53	B
ATOM	1616	O	GLU	B	34	59.401	19.756	56.364	1.00	54.53	B
ATOM	1617	N	ILE	B	35	57.923	19.026	54.830	1.00	60.68	B
ATOM	1618	CA	ILE	B	35	58.818	19.262	53.708	1.00	55.08	B
ATOM	1619	CB	ILE	B	35	58.079	19.131	52.349	1.00	53.75	B
ATOM	1620	CG2	ILE	B	35	58.974	19.629	51.210	1.00	53.93	B
ATOM	1621	CG1	ILE	B	35	57.644	17.678	52.139	1.00	50.95	B
ATOM	1622	CD1	ILE	B	35	57.153	17.383	50.738	1.00	56.77	B
ATOM	1623	C	ILE	B	35	59.398	20.663	53.828	1.00	53.89	B
ATOM	1624	O	ILE	B	35	60.613	20.850	53.759	1.00	53.54	B
ATOM	1625	N	ASP	B	36	58.520	21.646	54.020	1.00	54.29	B
ATOM	1626	CA	ASP	B	36	58.961	23.025	54.162	1.00	53.93	B
ATOM	1627	CB	ASP	B	36	57.769	23.982	54.305	1.00	54.66	B
ATOM	1628	CG	ASP	B	36	58.171	25.449	54.112	1.00	60.68	B
ATOM	1629	OD1	ASP	B	36	59.266	25.846	54.579	1.00	59.90	B
ATOM	1630	OD2	ASP	B	36	57.391	26.210	53.494	1.00	59.27	B
ATOM	1631	C	ASP	B	36	59.840	23.119	55.400	1.00	53.65	B
ATOM	1632	O	ASP	B	36	60.964	23.620	55.325	1.00	53.45	B
ATOM	1633	N	TYR	B	37	59.330	22.626	56.530	1.00	52.31	B
ATOM	1634	CA	TYR	B	37	60.088	22.674	57.772	1.00	53.27	B
ATOM	1635	CB	TYR	B	37	59.413	21.858	58.876	1.00	53.03	B
ATOM	1636	CG	TYR	B	37	60.149	22.012	60.189	1.00	57.53	B
ATOM	1637	CD1	TYR	B	37	60.037	23.181	60.935	1.00	65.14	B
ATOM	1638	CE1	TYR	B	37	60.810	23.392	62.058	1.00	62.25	B
ATOM	1639	CD2	TYR	B	37	61.051	21.051	60.617	1.00	63.34	B
ATOM	1640	CE2	TYR	B	37	61.830	21.254	61.740	1.00	62.28	B
ATOM	1641	CZ	TYR	B	37	61.709	22.428	62.454	1.00	64.75	B
ATOM	1642	OH	TYR	B	37	62.514	22.646	63.545	1.00	67.33	B
ATOM	1643	C	TYR	B	37	61.510	22.154	57.574	1.00	50.90	B
ATOM	1644	O	TYR	B	37	62.490	22.874	57.805	1.00	56.19	B
ATOM	1645	N	LEU	B	38	61.604	20.900	57.147	1.00	50.42	B
ATOM	1646	CA	LEU	B	38	62.879	20.244	56.893	1.00	51.07	B
ATOM	1647	CB	LEU	B	38	62.607	18.858	56.321	1.00	48.07	B
ATOM	1648	CG	LEU	B	38	62.007	17.968	57.396	1.00	53.47	B
ATOM	1649	CD1	LEU	B	38	61.407	16.724	56.813	1.00	43.78	B

ATOM 1650 CD2 LEU B 38 63.099 17.618 58.362 1.00 47.61 B
ATOM 1651 C LEU B 38 63.806 21.032 55.952 1.00 54.78 B
ATOM 1652 O LEU B 38 65.014 21.157 56.211 1.00 56.43 B
ATOM 1653 N ASN B 39 63.234 21.570 54.873 1.00 56.82 B
ATOM 1654 CA ASN B 39 63.988 22.331 53.872 1.00 55.74 B
ATOM 1655 CB ASN B 39 63.061 22.770 52.738 1.00 53.21 B
ATOM 1656 CG ASN B 39 63.748 23.696 51.752 1.00 59.75 B
ATOM 1657 OD1 ASN B 39 64.756 23.339 51.150 1.00 50.81 B
ATOM 1658 ND2 ASN B 39 63.205 24.891 51.585 1.00 53.30 B
ATOM 1659 C ASN B 39 64.750 23.558 54.371 1.00 55.84 B
ATOM 1660 O ASN B 39 65.882 23.812 53.951 1.00 61.30 B
ATOM 1661 N LYS B 40 64.137 24.335 55.250 1.00 56.73 B
ATOM 1662 CA LYS B 40 64.815 25.515 55.728 1.00 63.44 B
ATOM 1663 CB LYS B 40 63.796 26.597 56.071 1.00 64.97 B
ATOM 1664 CG LYS B 40 62.542 26.091 56.763 1.00 71.38 B
ATOM 1665 CD LYS B 40 61.316 26.904 56.334 1.00 71.94 B
ATOM 1666 CE LYS B 40 61.499 28.401 56.570 1.00 70.07 B
ATOM 1667 NZ LYS B 40 60.382 29.197 55.976 1.00 66.64 B
ATOM 1668 C LYS B 40 65.718 25.219 56.902 1.00 64.00 B
ATOM 1669 O LYS B 40 66.726 25.900 57.097 1.00 64.69 B
ATOM 1670 N VAL B 41 65.384 24.191 57.669 1.00 59.03 B
ATOM 1671 CA VAL B 41 66.207 23.855 58.825 1.00 62.12 B
ATOM 1672 CB VAL B 41 65.445 22.991 59.842 1.00 66.32 B
ATOM 1673 CG1 VAL B 41 64.515 23.857 60.682 1.00 62.95 B
ATOM 1674 CG2 VAL B 41 64.666 21.920 59.117 1.00 66.19 B
ATOM 1675 C VAL B 41 67.496 23.131 58.487 1.00 62.96 B
ATOM 1676 O VAL B 41 68.555 23.467 59.017 1.00 64.26 B
ATOM 1677 N LEU B 42 67.403 22.139 57.606 1.00 59.21 B
ATOM 1678 CA LEU B 42 68.564 21.344 57.215 1.00 55.32 B
ATOM 1679 CB LEU B 42 68.105 20.129 56.404 1.00 58.14 B
ATOM 1680 CG LEU B 42 67.279 19.112 57.199 1.00 58.47 B
ATOM 1681 CD1 LEU B 42 66.490 18.234 56.271 1.00 49.56 B
ATOM 1682 CD2 LEU B 42 68.193 18.271 58.070 1.00 48.16 B
ATOM 1683 C LEU B 42 69.599 22.140 56.431 1.00 53.60 B
ATOM 1684 O LEU B 42 69.255 22.953 55.585 1.00 52.82 B
ATOM 1685 N PRO B 43 70.889 21.919 56.713 1.00 55.02 B
ATOM 1686 CD PRO B 43 71.411 20.982 57.722 1.00 54.60 B
ATOM 1687 CA PRO B 43 71.991 22.609 56.036 1.00 56.58 B
ATOM 1688 CB PRO B 43 73.191 22.245 56.907 1.00 54.30 B
ATOM 1689 CG PRO B 43 72.873 20.854 57.323 1.00 53.53 B
ATOM 1690 C PRO B 43 72.159 22.123 54.590 1.00 61.94 B
ATOM 1691 O PRO B 43 71.439 21.222 54.150 1.00 62.87 B
ATOM 1692 N TYR B 44 73.101 22.700 53.844 1.00 63.19 B
ATOM 1693 CA TYR B 44 73.288 22.238 52.469 1.00 60.48 B
ATOM 1694 CB TYR B 44 73.414 23.400 51.481 1.00 61.93 B
ATOM 1695 CG TYR B 44 73.664 22.889 50.066 1.00 58.35 B
ATOM 1696 CD1 TYR B 44 72.787 21.966 49.475 1.00 52.11 B
ATOM 1697 CE1 TYR B 44 73.041 21.443 48.197 1.00 57.53 B
ATOM 1698 CD2 TYR B 44 74.801 23.281 49.339 1.00 57.98 B
ATOM 1699 CE2 TYR B 44 75.061 22.762 48.056 1.00 58.73 B
ATOM 1700 CZ TYR B 44 74.177 21.843 47.496 1.00 59.81 B
ATOM 1701 OH TYR B 44 74.425 21.307 46.252 1.00 63.03 B
ATOM 1702 C TYR B 44 74.469 21.288 52.225 1.00 57.56 B
ATOM 1703 O TYR B 44 75.623 21.596 52.556 1.00 60.46 B
ATOM 1704 N TYR B 45 74.157 20.141 51.622 1.00 57.33 B
ATOM 1705 CA TYR B 45 75.145 19.126 51.278 1.00 54.95 B
ATOM 1706 CB TYR B 45 75.002 17.898 52.176 1.00 62.40 B
ATOM 1707 CG TYR B 45 75.531 18.074 53.584 1.00 63.82 B
ATOM 1708 CD1 TYR B 45 76.878 18.379 53.816 1.00 60.77 B
ATOM 1709 CE1 TYR B 45 77.377 18.509 55.125 1.00 61.66 B
ATOM 1710 CD2 TYR B 45 74.690 17.907 54.689 1.00 59.76 B
ATOM 1711 CE2 TYR B 45 75.175 18.037 56.001 1.00 59.81 B
ATOM 1712 CZ TYR B 45 76.516 18.337 56.215 1.00 59.39 B
ATOM 1713 OH TYR B 45 76.980 18.474 57.512 1.00 63.19 B
ATOM 1714 C TYR B 45 74.837 18.749 49.845 1.00 60.44 B
ATOM 1715 O TYR B 45 73.713 18.351 49.533 1.00 59.13 B

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ATOM   1716  N   SER B  46      75.843  18.882  48.988  1.00 61.10      B
ATOM   1717  CA  SER B  46      75.720  18.597  47.556  1.00 56.77      B
ATOM   1718  CB  SER B  46      77.104  18.692  46.889  1.00 59.13      B
ATOM   1719  OG  SER B  46      78.037  17.773  47.442  1.00 59.77      B
ATOM   1720  C   SER B  46      75.059  17.267  47.163  1.00 59.79      B
ATOM   1721  O   SER B  46      74.372  17.195  46.132  1.00 53.16      B
ATOM   1722  N   SER B  47      75.255  16.233  47.984  1.00 58.87      B
ATOM   1723  CA  SER B  47      74.717  14.895  47.716  1.00 57.09      B
ATOM   1724  CB  SER B  47      75.539  13.845  48.463  1.00 61.21      B
ATOM   1725  OG  SER B  47      76.930  14.008  48.229  1.00 70.21      B
ATOM   1726  C   SER B  47      73.254  14.699  48.072  1.00 57.72      B
ATOM   1727  O   SER B  47      72.628  13.760  47.585  1.00 51.38      B
ATOM   1728  N   TYR B  48      72.736  15.581  48.931  1.00 53.33      B
ATOM   1729  CA  TYR B  48      71.340  15.564  49.415  1.00 56.78      B
ATOM   1730  CB  TYR B  48      70.349  15.429  48.240  1.00 58.56      B
ATOM   1731  CG  TYR B  48      70.353  16.620  47.290  1.00 61.94      B
ATOM   1732  CD1 TYR B  48      69.910  17.884  47.709  1.00 58.33      B
ATOM   1733  CE1 TYR B  48      69.947  18.999  46.836  1.00 64.61      B
ATOM   1734  CD2 TYR B  48      70.832  16.492  45.974  1.00 66.56      B
ATOM   1735  CE2 TYR B  48      70.875  17.595  45.095  1.00 64.50      B
ATOM   1736  CZ  TYR B  48      70.434  18.843  45.531  1.00 68.92      B
ATOM   1737  OH  TYR B  48      70.492  19.920  44.666  1.00 70.28      B
ATOM   1738  C   TYR B  48      71.037  14.499  50.488  1.00 51.33      B
ATOM   1739  O   TYR B  48      71.906  13.722  50.891  1.00 49.16      B
ATOM   1740  N   TYR B  49      69.799  14.460  50.953  1.00 51.81      B
ATOM   1741  CA  TYR B  49      69.451  13.509  51.986  1.00 50.57      B
ATOM   1742  CB  TYR B  49      68.724  14.224  53.119  1.00 46.38      B
ATOM   1743  CG  TYR B  49      69.493  15.383  53.714  1.00 49.10      B
ATOM   1744  CD1 TYR B  49      69.878  16.469  52.926  1.00 55.56      B
ATOM   1745  CE1 TYR B  49      70.548  17.564  53.481  1.00 52.65      B
ATOM   1746  CD2 TYR B  49      69.803  15.414  55.077  1.00 47.14      B
ATOM   1747  CE2 TYR B  49      70.475  16.505  55.644  1.00 47.42      B
ATOM   1748  CZ  TYR B  49      70.843  17.579  54.842  1.00 53.80      B
ATOM   1749  OH  TYR B  49      71.482  18.671  55.400  1.00 53.02      B
ATOM   1750  C   TYR B  49      68.593  12.373  51.486  1.00 53.90      B
ATOM   1751  O   TYR B  49      67.810  12.538  50.565  1.00 61.40      B
ATOM   1752  N   TRP B  50      68.751  11.213  52.104  1.00 50.59      B
ATOM   1753  CA  TRP B  50      67.968  10.036  51.754  1.00 53.81      B
ATOM   1754  CB  TRP B  50      68.739   8.769  52.140  1.00 51.16      B
ATOM   1755  CG  TRP B  50      69.647   8.237  51.083  1.00 56.01      B
ATOM   1756  CD2 TRP B  50      69.301   7.979  49.729  1.00 62.82      B
ATOM   1757  CE2 TRP B  50      70.431   7.403  49.109  1.00 66.34      B
ATOM   1758  CE3 TRP B  50      68.139   8.174  48.975  1.00 61.77      B
ATOM   1759  CD1 TRP B  50      70.945   7.826  51.233  1.00 59.44      B
ATOM   1760  NE1 TRP B  50      71.423   7.321  50.050  1.00 57.86      B
ATOM   1761  CZ2 TRP B  50      70.431   7.021  47.772  1.00 65.40      B
ATOM   1762  CZ3 TRP B  50      68.137   7.796  47.652  1.00 64.83      B
ATOM   1763  CH2 TRP B  50      69.277   7.223  47.059  1.00 64.03      B
ATOM   1764  C   TRP B  50      66.691  10.098  52.581  1.00 51.31      B
ATOM   1765  O   TRP B  50      66.770  10.139  53.795  1.00 50.88      B
ATOM   1766  N   ILE B  51      65.516  10.117  51.969  1.00 48.72      B
ATOM   1767  CA  ILE B  51      64.322  10.153  52.796  1.00 53.18      B
ATOM   1768  CB  ILE B  51      63.170  10.858  52.107  1.00 50.93      B
ATOM   1769  CG2 ILE B  51      63.641  12.204  51.582  1.00 36.65      B
ATOM   1770  CG1 ILE B  51      62.616   9.986  50.985  1.00 43.04      B
ATOM   1771  CD1 ILE B  51      61.239  10.424  50.518  1.00 52.58      B
ATOM   1772  C   ILE B  51      63.942   8.721  53.076  1.00 55.84      B
ATOM   1773  O   ILE B  51      64.505   7.817  52.481  1.00 56.30      B
ATOM   1774  N   GLY B  52      62.981   8.502  53.960  1.00 59.68      B
ATOM   1775  CA  GLY B  52      62.611   7.135  54.296  1.00 56.62      B
ATOM   1776  C   GLY B  52      61.383   6.516  53.655  1.00 54.48      B
ATOM   1777  O   GLY B  52      60.393   6.227  54.327  1.00 63.63      B
ATOM   1778  N   ILE B  53      61.452   6.286  52.353  1.00 56.86      B
ATOM   1779  CA  ILE B  53      60.332   5.701  51.640  1.00 56.95      B
ATOM   1780  CB  ILE B  53      59.318   6.788  51.168  1.00 57.06      B
ATOM   1781  CG2 ILE B  53      59.910   7.629  50.041  1.00 56.13      B
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ATOM	1782	CG1	ILE	B	53	58.041	6.125	50.665	1.00	57.99	B
ATOM	1783	CD1	ILE	B	53	57.014	7.111	50.168	1.00	59.89	B
ATOM	1784	C	ILE	B	53	60.824	4.917	50.437	1.00	57.27	B
ATOM	1785	O	ILE	B	53	61.675	5.374	49.667	1.00	54.87	B
ATOM	1786	N	ARG	B	54	60.284	3.718	50.296	1.00	53.72	B
ATOM	1787	CA	ARG	B	54	60.647	2.860	49.194	1.00	60.56	B
ATOM	1788	CB	ARG	B	54	61.393	1.634	49.712	1.00	49.72	B
ATOM	1789	CG	ARG	B	54	62.687	2.000	50.397	1.00	52.63	B
ATOM	1790	CD	ARG	B	54	63.692	2.622	49.436	1.00	55.32	B
ATOM	1791	NE	ARG	B	54	64.230	1.639	48.504	1.00	57.84	B
ATOM	1792	CZ	ARG	B	54	64.696	0.447	48.867	1.00	65.33	B
ATOM	1793	NH1	ARG	B	54	64.682	0.090	50.145	1.00	55.13	B
ATOM	1794	NH2	ARG	B	54	65.191	-0.388	47.959	1.00	59.05	B
ATOM	1795	C	ARG	B	54	59.395	2.463	48.420	1.00	65.47	B
ATOM	1796	O	ARG	B	54	58.273	2.802	48.826	1.00	62.62	B
ATOM	1797	N	LYS	B	55	59.594	1.751	47.309	1.00	70.24	B
ATOM	1798	CA	LYS	B	55	58.497	1.347	46.444	1.00	76.80	B
ATOM	1799	CB	LYS	B	55	58.624	2.074	45.105	1.00	76.34	B
ATOM	1800	CG	LYS	B	55	57.728	1.539	43.996	1.00	78.84	B
ATOM	1801	CD	LYS	B	55	58.359	1.788	42.614	1.00	76.88	B
ATOM	1802	CE	LYS	B	55	57.509	1.242	41.441	1.00	84.90	B
ATOM	1803	NZ	LYS	B	55	56.335	2.099	41.048	1.00	86.85	B
ATOM	1804	C	LYS	B	55	58.380	-0.141	46.173	1.00	80.45	B
ATOM	1805	O	LYS	B	55	59.079	-0.668	45.309	1.00	80.79	B
ATOM	1806	N	ASN	B	56	57.507	-0.821	46.914	1.00	86.31	B
ATOM	1807	CA	ASN	B	56	57.265	-2.239	46.655	1.00	91.43	B
ATOM	1808	CB	ASN	B	56	56.761	-2.990	47.908	1.00	92.41	B
ATOM	1809	CG	ASN	B	56	55.532	-2.358	48.544	1.00	99.99	B
ATOM	1810	OD1	ASN	B	56	54.694	-3.056	49.116	1.00	101.02	B
ATOM	1811	ND2	ASN	B	56	55.434	-1.042	48.474	1.00	99.22	B
ATOM	1812	C	ASN	B	56	56.202	-2.233	45.548	1.00	91.65	B
ATOM	1813	O	ASN	B	56	55.189	-1.533	45.662	1.00	92.21	B
ATOM	1814	N	ASN	B	57	56.450	-2.996	44.479	1.00	90.54	B
ATOM	1815	CA	ASN	B	57	55.572	-3.073	43.288	1.00	91.29	B
ATOM	1816	CB	ASN	B	57	54.206	-3.766	43.584	1.00	88.60	B
ATOM	1817	CG	ASN	B	57	53.511	-3.246	44.839	1.00	86.80	B
ATOM	1818	OD1	ASN	B	57	53.756	-3.745	45.940	1.00	83.88	B
ATOM	1819	ND2	ASN	B	57	52.641	-2.245	44.676	1.00	73.02	B
ATOM	1820	C	ASN	B	57	55.340	-1.715	42.590	1.00	90.03	B
ATOM	1821	O	ASN	B	57	56.091	-1.342	41.677	1.00	87.00	B
ATOM	1822	N	LYS	B	58	54.300	-0.995	43.002	1.00	90.79	B
ATOM	1823	CA	LYS	B	58	54.006	0.312	42.430	1.00	92.84	B
ATOM	1824	CB	LYS	B	58	52.911	0.217	41.361	1.00	96.31	B
ATOM	1825	CG	LYS	B	58	53.136	-0.826	40.277	1.00	98.46	B
ATOM	1826	CD	LYS	B	58	52.241	-0.535	39.080	1.00	100.36	B
ATOM	1827	CE	LYS	B	58	51.956	-1.785	38.263	1.00	101.78	B
ATOM	1828	NZ	LYS	B	58	50.985	-2.691	38.952	1.00	101.60	B
ATOM	1829	C	LYS	B	58	53.546	1.250	43.544	1.00	90.68	B
ATOM	1830	O	LYS	B	58	53.324	2.443	43.311	1.00	93.39	B
ATOM	1831	N	THR	B	59	53.399	0.707	44.752	1.00	85.37	B
ATOM	1832	CA	THR	B	59	52.969	1.510	45.895	1.00	79.15	B
ATOM	1833	CB	THR	B	59	51.815	0.834	46.675	1.00	77.42	B
ATOM	1834	OG1	THR	B	59	50.592	1.538	46.416	1.00	83.48	B
ATOM	1835	CG2	THR	B	59	52.085	0.852	48.175	1.00	67.78	B
ATOM	1836	C	THR	B	59	54.090	1.810	46.871	1.00	77.06	B
ATOM	1837	O	THR	B	59	54.766	0.912	47.362	1.00	75.52	B
ATOM	1838	N	TRP	B	60	54.270	3.090	47.159	1.00	71.81	B
ATOM	1839	CA	TRP	B	60	55.299	3.503	48.091	1.00	66.08	B
ATOM	1840	CB	TRP	B	60	55.759	4.923	47.775	1.00	56.75	B
ATOM	1841	CG	TRP	B	60	56.376	5.037	46.430	1.00	63.84	B
ATOM	1842	CD2	TRP	B	60	57.778	5.107	46.134	1.00	65.79	B
ATOM	1843	CE2	TRP	B	60	57.904	5.181	44.732	1.00	60.06	B
ATOM	1844	CE3	TRP	B	60	58.939	5.112	46.918	1.00	59.93	B
ATOM	1845	CD1	TRP	B	60	55.729	5.070	45.233	1.00	59.46	B
ATOM	1846	NE1	TRP	B	60	56.640	5.158	44.206	1.00	63.04	B
ATOM	1847	CZ2	TRP	B	60	59.144	5.260	44.097	1.00	62.04	B

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ATOM	1848	CZ3	TRP	B	60	60.174	5.192	46.286	1.00	56.93	B
ATOM	1849	CH2	TRP	B	60	60.265	5.265	44.890	1.00	65.21	B
ATOM	1850	C	TRP	B	60	54.797	3.434	49.526	1.00	63.63	B
ATOM	1851	O	TRP	B	60	53.651	3.793	49.824	1.00	62.63	B
ATOM	1852	N	THR	B	61	55.663	2.959	50.410	1.00	57.12	B
ATOM	1853	CA	THR	B	61	55.329	2.860	51.820	1.00	57.19	B
ATOM	1854	CB	THR	B	61	54.981	1.392	52.226	1.00	59.18	B
ATOM	1855	OG1	THR	B	61	54.038	0.846	51.300	1.00	69.49	B
ATOM	1856	CG2	THR	B	61	54.355	1.347	53.613	1.00	60.17	B
ATOM	1857	C	THR	B	61	56.570	3.322	52.581	1.00	58.54	B
ATOM	1858	O	THR	B	61	57.643	2.725	52.441	1.00	55.19	B
ATOM	1859	N	TRP	B	62	56.441	4.398	53.357	1.00	55.51	B
ATOM	1860	CA	TRP	B	62	57.581	4.875	54.125	1.00	57.49	B
ATOM	1861	CB	TRP	B	62	57.258	6.192	54.850	1.00	59.58	B
ATOM	1862	CG	TRP	B	62	56.708	7.293	53.968	1.00	51.92	B
ATOM	1863	CD2	TRP	B	62	57.406	8.455	53.487	1.00	46.50	B
ATOM	1864	CE2	TRP	B	62	56.485	9.222	52.746	1.00	52.43	B
ATOM	1865	CE3	TRP	B	62	58.717	8.923	53.611	1.00	45.47	B
ATOM	1866	CD1	TRP	B	62	55.428	7.403	53.501	1.00	46.65	B
ATOM	1867	NE1	TRP	B	62	55.284	8.559	52.769	1.00	49.12	B
ATOM	1868	CZ2	TRP	B	62	56.839	10.435	52.135	1.00	54.74	B
ATOM	1869	CZ3	TRP	B	62	59.064	10.137	52.998	1.00	52.08	B
ATOM	1870	CH2	TRP	B	62	58.132	10.870	52.276	1.00	50.00	B
ATOM	1871	C	TRP	B	62	57.888	3.748	55.119	1.00	55.25	B
ATOM	1872	O	TRP	B	62	56.983	3.194	55.746	1.00	52.73	B
ATOM	1873	N	VAL	B	63	59.171	3.419	55.236	1.00	50.52	B
ATOM	1874	CA	VAL	B	63	59.672	2.340	56.082	1.00	50.68	B
ATOM	1875	CB	VAL	B	63	61.216	2.216	55.921	1.00	54.57	B
ATOM	1876	CG1	VAL	B	63	61.649	2.838	54.596	1.00	46.75	B
ATOM	1877	CG2	VAL	B	63	61.939	2.867	57.090	1.00	47.69	B
ATOM	1878	C	VAL	B	63	59.344	2.333	57.581	1.00	56.22	B
ATOM	1879	O	VAL	B	63	58.983	1.288	58.133	1.00	57.87	B
ATOM	1880	N	GLY	B	64	59.478	3.479	58.244	1.00	53.57	B
ATOM	1881	CA	GLY	B	64	59.214	3.520	59.673	1.00	51.14	B
ATOM	1882	C	GLY	B	64	57.774	3.789	60.055	1.00	57.57	B
ATOM	1883	O	GLY	B	64	57.411	3.785	61.233	1.00	55.10	B
ATOM	1884	N	THR	B	65	56.947	4.019	59.049	1.00	52.66	B
ATOM	1885	CA	THR	B	65	55.548	4.305	59.263	1.00	59.55	B
ATOM	1886	CB	THR	B	65	55.140	5.518	58.449	1.00	60.63	B
ATOM	1887	OG1	THR	B	65	55.533	5.307	57.087	1.00	65.93	B
ATOM	1888	CG2	THR	B	65	55.804	6.782	58.986	1.00	61.84	B
ATOM	1889	C	THR	B	65	54.706	3.127	58.814	1.00	62.10	B
ATOM	1890	O	THR	B	65	53.714	2.783	59.451	1.00	62.84	B
ATOM	1891	N	LYS	B	66	55.113	2.515	57.708	1.00	61.44	B
ATOM	1892	CA	LYS	B	66	54.397	1.376	57.146	1.00	68.07	B
ATOM	1893	CB	LYS	B	66	53.986	0.380	58.251	1.00	64.81	B
ATOM	1894	CG	LYS	B	66	54.865	-0.880	58.357	1.00	70.60	B
ATOM	1895	CD	LYS	B	66	56.333	-0.539	58.615	1.00	73.99	B
ATOM	1896	CE	LYS	B	66	57.244	-1.768	58.561	1.00	83.16	B
ATOM	1897	NZ	LYS	B	66	58.688	-1.406	58.769	1.00	81.37	B
ATOM	1898	C	LYS	B	66	53.169	1.938	56.461	1.00	68.65	B
ATOM	1899	O	LYS	B	66	52.317	1.198	55.965	1.00	75.15	B
ATOM	1900	N	LYS	B	67	53.099	3.265	56.440	1.00	66.78	B
ATOM	1901	CA	LYS	B	67	51.982	3.985	55.831	1.00	59.65	B
ATOM	1902	CB	LYS	B	67	51.743	5.321	56.560	1.00	60.07	B
ATOM	1903	CG	LYS	B	67	51.109	5.170	57.960	1.00	65.83	B
ATOM	1904	CD	LYS	B	67	50.842	6.524	58.636	1.00	68.21	B
ATOM	1905	CE	LYS	B	67	50.115	6.364	59.978	1.00	66.38	B
ATOM	1906	NZ	LYS	B	67	48.756	5.788	59.808	1.00	72.45	B
ATOM	1907	C	LYS	B	67	52.219	4.228	54.347	1.00	55.89	B
ATOM	1908	O	LYS	B	67	53.355	4.393	53.905	1.00	55.24	B
ATOM	1909	N	ALA	B	68	51.141	4.246	53.576	1.00	55.15	B
ATOM	1910	CA	ALA	B	68	51.273	4.448	52.150	1.00	55.59	B
ATOM	1911	CB	ALA	B	68	50.058	3.903	51.446	1.00	54.12	B
ATOM	1912	C	ALA	B	68	51.422	5.922	51.864	1.00	54.47	B
ATOM	1913	O	ALA	B	68	50.897	6.745	52.604	1.00	58.81	B

ATOM	1914	N	LEU	B	69	52.148	6.260	50.802	1.00	54.26	B
ATOM	1915	CA	LEU	B	69	52.315	7.665	50.441	1.00	56.83	B
ATOM	1916	CB	LEU	B	69	53.276	7.818	49.240	1.00	51.99	B
ATOM	1917	CG	LEU	B	69	53.345	9.172	48.495	1.00	58.40	B
ATOM	1918	CD1	LEU	B	69	53.513	10.313	49.460	1.00	54.54	B
ATOM	1919	CD2	LEU	B	69	54.501	9.168	47.509	1.00	52.14	B
ATOM	1920	C	LEU	B	69	50.934	8.240	50.095	1.00	62.68	B
ATOM	1921	O	LEU	B	69	50.086	7.539	49.513	1.00	59.73	B
ATOM	1922	N	THR	B	70	50.712	9.502	50.483	1.00	65.85	B
ATOM	1923	CA	THR	B	70	49.451	10.208	50.216	1.00	64.02	B
ATOM	1924	CB	THR	B	70	48.752	10.696	51.502	1.00	61.10	B
ATOM	1925	OG1	THR	B	70	49.599	11.638	52.171	1.00	61.87	B
ATOM	1926	CG2	THR	B	70	48.448	9.539	52.430	1.00	51.75	B
ATOM	1927	C	THR	B	70	49.733	11.447	49.388	1.00	65.80	B
ATOM	1928	O	THR	B	70	50.860	11.955	49.386	1.00	65.20	B
ATOM	1929	N	ASN	B	71	48.702	11.935	48.701	1.00	65.93	B
ATOM	1930	CA	ASN	B	71	48.852	13.126	47.876	1.00	66.92	B
ATOM	1931	CB	ASN	B	71	47.499	13.583	47.346	1.00	70.04	B
ATOM	1932	CG	ASN	B	71	47.092	12.843	46.100	1.00	79.93	B
ATOM	1933	OD1	ASN	B	71	47.770	12.926	45.069	1.00	83.27	B
ATOM	1934	ND2	ASN	B	71	45.983	12.107	46.178	1.00	77.31	B
ATOM	1935	C	ASN	B	71	49.503	14.262	48.654	1.00	61.74	B
ATOM	1936	O	ASN	B	71	50.153	15.141	48.066	1.00	64.71	B
ATOM	1937	N	GLU	B	72	49.317	14.227	49.974	1.00	62.83	B
ATOM	1938	CA	GLU	B	72	49.870	15.223	50.880	1.00	64.42	B
ATOM	1939	CB	GLU	B	72	49.291	15.036	52.287	1.00	65.92	B
ATOM	1940	CG	GLU	B	72	47.877	15.551	52.492	1.00	73.36	B
ATOM	1941	CD	GLU	B	72	46.895	14.987	51.486	1.00	76.77	B
ATOM	1942	OE1	GLU	B	72	46.876	13.745	51.302	1.00	76.67	B
ATOM	1943	OE2	GLU	B	72	46.136	15.787	50.886	1.00	81.46	B
ATOM	1944	C	GLU	B	72	51.388	15.081	50.943	1.00	61.06	B
ATOM	1945	O	GLU	B	72	52.135	16.032	50.697	1.00	56.33	B
ATOM	1946	N	ALA	B	73	51.848	13.888	51.287	1.00	58.63	B
ATOM	1947	CA	ALA	B	73	53.275	13.676	51.378	1.00	57.51	B
ATOM	1948	CB	ALA	B	73	53:567	12.301	51.945	1.00	61.35	B
ATOM	1949	C	ALA	B	73	53.879	13.817	49.993	1.00	53.64	B
ATOM	1950	O	ALA	B	73	54.944	14.428	49.846	1.00	53.33	B
ATOM	1951	N	GLU	B	74	53.178	13.270	48.988	1.00	55.35	B
ATOM	1952	CA	GLU	B	74	53.617	13.282	47.579	1.00	56.48	B
ATOM	1953	CB	GLU	B	74	52.435	12.977	46.640	1.00	56.22	B
ATOM	1954	CG	GLU	B	74	52.840	12.552	45.204	1.00	60.63	B
ATOM	1955	CD	GLU	B	74	53.272	13.718	44.299	1.00	66.28	B
ATOM	1956	OE1	GLU	B	74	52.374	14.434	43.780	1.00	71.86	B
ATOM	1957	OE2	GLU	B	74	54.505	13.918	44.109	1.00	59.72	B
ATOM	1958	C	GLU	B	74	54.261	14.606	47.171	1.00	53.30	B
ATOM	1959	O	GLU	B	74	53.631	15.664	47.247	1.00	53.32	B
ATOM	1960	N	ASN	B	75	55.509	14.540	46.722	1.00	50.03	B
ATOM	1961	CA	ASN	B	75	56.212	15.740	46.339	1.00	50.73	B
ATOM	1962	CB	ASN	B	75	56.670	16.478	47.589	1.00	51.22	B
ATOM	1963	CG	ASN	B	75	57.087	17.895	47.302	1.00	52.63	B
ATOM	1964	OD1	ASN	B	75	56.247	18.754	47.057	1.00	61.10	B
ATOM	1965	ND2	ASN	B	75	58.387	18.150	47.318	1.00	56.37	B
ATOM	1966	C	ASN	B	75	57.421	15.389	45.490	1.00	53.11	B
ATOM	1967	O	ASN	B	75	58.542	15.824	45.782	1.00	53.08	B
ATOM	1968	N	TRP	B	76	57.202	14.602	44.441	1.00	52.35	B
ATOM	1969	CA	TRP	B	76	58.297	14.214	43.558	1.00	55.21	B
ATOM	1970	CB	TRP	B	76	57.819	13.198	42.548	1.00	51.52	B
ATOM	1971	CG	TRP	B	76	57.386	11.938	43.137	1.00	53.42	B
ATOM	1972	CD2	TRP	B	76	58.224	10.845	43.488	1.00	51.40	B
ATOM	1973	CE2	TRP	B	76	57.385	9.816	43.979	1.00	55.52	B
ATOM	1974	CE3	TRP	B	76	59.604	10.630	43.434	1.00	53.15	B
ATOM	1975	CD1	TRP	B	76	56.107	11.557	43.422	1.00	53.49	B
ATOM	1976	NE1	TRP	B	76	56.095	10.278	43.926	1.00	53.57	B
ATOM	1977	CZ2	TRP	B	76	57.886	8.583	44.418	1.00	60.39	B
ATOM	1978	CZ3	TRP	B	76	60.102	9.408	43.866	1.00	54.95	B
ATOM	1979	CH2	TRP	B	76	59.242	8.398	44.353	1.00	60.51	B

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ATOM	1980	C	TRP	B	76	58.874	15.402	42.799	1.00	57.11	B
ATOM	1981	O	TRP	B	76	58.429	16.536	42.970	1.00	61.08	B
ATOM	1982	N	ALA	B	77	59.850	15.133	41.936	1.00	61.91	B
ATOM	1983	CA	ALA	B	77	60.485	16.190	41.147	1.00	60.23	B
ATOM	1984	CB	ALA	B	77	61.992	15.942	41.052	1.00	60.30	B
ATOM	1985	C	ALA	B	77	59.908	16.337	39.745	1.00	65.40	B
ATOM	1986	O	ALA	B	77	58.988	15.614	39.349	1.00	60.59	B
ATOM	1987	N	ASP	B	78	60.446	17.291	38.995	1.00	66.90	B
ATOM	1988	CA	ASP	B	78	59.986	17.475	37.633	1.00	69.94	B
ATOM	1989	CB	ASP	B	78	60.569	18.756	37.007	1.00	68.75	B
ATOM	1990	CG	ASP	B	78	59.625	19.967	37.133	1.00	68.41	B
ATOM	1991	OD1	ASP	B	78	58.389	19.769	37.302	1.00	68.95	B
ATOM	1992	OD2	ASP	B	78	60.130	21.116	37.043	1.00	65.89	B
ATOM	1993	C	ASP	B	78	60.458	16.248	36.859	1.00	69.83	B
ATOM	1994	O	ASP	B	78	61.666	15.990	36.767	1.00	72.85	B
ATOM	1995	N	ASN	B	79	59.491	15.492	36.331	1.00	66.92	B
ATOM	1996	CA	ASN	B	79	59.753	14.273	35.558	1.00	67.88	B
ATOM	1997	CB	ASN	B	79	60.734	14.551	34.401	1.00	74.01	B
ATOM	1998	CG	ASN	B	79	60.148	15.476	33.329	1.00	77.82	B
ATOM	1999	OD1	ASN	B	79	60.841	16.359	32.821	1.00	74.18	B
ATOM	2000	ND2	ASN	B	79	58.878	15.265	32.975	1.00	72.58	B
ATOM	2001	C	ASN	B	79	60.333	13.201	36.472	1.00	68.48	B
ATOM	2002	O	ASN	B	79	61.452	12.733	36.246	1.00	65.46	B
ATOM	2003	N	GLU	B	80	59.561	12.827	37.498	1.00	68.38	B
ATOM	2004	CA	GLU	B	80	59.971	11.817	38.480	1.00	61.35	B
ATOM	2005	CB	GLU	B	80	60.559	12.502	39.701	1.00	60.81	B
ATOM	2006	CG	GLU	B	80	61.830	13.234	39.405	1.00	64.73	B
ATOM	2007	CD	GLU	B	80	62.919	12.301	38.967	1.00	69.14	B
ATOM	2008	OE1	GLU	B	80	62.674	11.069	38.953	1.00	59.44	B
ATOM	2009	OE2	GLU	B	80	64.014	12.807	38.647	1.00	72.08	B
ATOM	2010	C	GLU	B	80	58.830	10.910	38.922	1.00	61.71	B
ATOM	2011	O	GLU	B	80	57.690	11.361	39.067	1.00	64.43	B
ATOM	2012	N	PRO	B	81	59.127	9.616	39.162	1.00	59.55	B
ATOM	2013	CD	PRO	B	81	58.087	8.700	39.672	1.00	58.37	B
ATOM	2014	CA	PRO	B	81	60.422	8.915	39.062	1.00	63.33	B
ATOM	2015	CB	PRO	B	81	60.208	7.707	39.964	1.00	65.57	B
ATOM	2016	CG	PRO	B	81	58.782	7.344	39.645	1.00	55.66	B
ATOM	2017	C	PRO	B	81	60.776	8.487	37.625	1.00	69.10	B
ATOM	2018	O	PRO	B	81	59.903	8.489	36.744	1.00	69.46	B
ATOM	2019	N	ASN	B	82	62.033	8.101	37.386	1.00	73.27	B
ATOM	2020	CA	ASN	B	82	62.453	7.672	36.044	1.00	71.95	B
ATOM	2021	CB	ASN	B	82	63.156	8.832	35.340	1.00	68.56	B
ATOM	2022	CG	ASN	B	82	64.191	9.483	36.204	1.00	67.88	B
ATOM	2023	OD1	ASN	B	82	65.340	9.056	36.262	1.00	69.93	B
ATOM	2024	ND2	ASN	B	82	63.784	10.519	36.900	1.00	66.62	B
ATOM	2025	C	ASN	B	82	63.345	6.421	36.013	1.00	73.70	B
ATOM	2026	O	ASN	B	82	64.303	6.326	35.234	1.00	78.05	B
ATOM	2027	N	ASN	B	83	63.007	5.447	36.848	1.00	71.95	B
ATOM	2028	CA	ASN	B	83	63.796	4.225	36.934	1.00	73.58	B
ATOM	2029	CB	ASN	B	83	64.843	4.381	38.054	1.00	71.13	B
ATOM	2030	CG	ASN	B	83	65.471	5.782	38.096	1.00	73.11	B
ATOM	2031	OD1	ASN	B	83	65.775	6.379	37.058	1.00	73.53	B
ATOM	2032	ND2	ASN	B	83	65.686	6.295	39.304	1.00	74.98	B
ATOM	2033	C	ASN	B	83	62.924	2.968	37.179	1.00	74.05	B
ATOM	2034	O	ASN	B	83	61.977	2.992	37.979	1.00	73.51	B
ATOM	2035	N	LYS	B	84	63.259	1.876	36.488	1.00	77.37	B
ATOM	2036	CA	LYS	B	84	62.520	0.614	36.597	1.00	83.22	B
ATOM	2037	CB	LYS	B	84	62.361	-0.021	35.211	1.00	88.67	B
ATOM	2038	CG	LYS	B	84	61.920	0.953	34.127	1.00	93.72	B
ATOM	2039	CD	LYS	B	84	60.520	1.495	34.400	1.00	98.83	B
ATOM	2040	CE	LYS	B	84	60.252	2.774	33.608	1.00	99.76	B
ATOM	2041	NZ	LYS	B	84	61.158	3.896	34.019	1.00	103.33	B
ATOM	2042	C	LYS	B	84	63.244	-0.373	37.503	1.00	82.63	B
ATOM	2043	O	LYS	B	84	62.703	-0.802	38.524	1.00	81.66	B
ATOM	2044	N	ARG	B	85	64.468	-0.716	37.089	1.00	84.90	B
ATOM	2045	CA	ARG	B	85	65.386	-1.655	37.765	1.00	84.66	B

ATOM 2046 CB ARG B 85 66.810 -1.444 37.229 1.00 89.16 B
ATOM 2047 CG ARG B 85 66.893 -1.249 35.717 1.00 94.58 B
ATOM 2048 CD ARG B 85 67.912 -0.177 35.353 1.00103.35 B
ATOM 2049 NE ARG B 85 67.443 1.158 35.718 1.00110.06 B
ATOM 2050 CZ ARG B 85 68.188 2.257 35.653 1.00114.17 B
ATOM 2051 NH1 ARG B 85 69.445 2.188 35.237 1.00117.19 B
ATOM 2052 NH2 ARG B 85 67.678 3.427 36.011 1.00111.65 B
ATOM 2053 C ARG B 85 65.431 -1.586 39.301 1.00 78.79 B
ATOM 2054 O ARG B 85 65.017 -0.584 39.913 1.00 75.92 B
ATOM 2055 N ASN B 86 65.961 -2.651 39.911 1.00 74.37 B
ATOM 2056 CA ASN B 86 66.072 -2.737 41.371 1.00 69.11 B
ATOM 2057 CB ASN B 86 66.493 -4.162 41.814 1.00 69.47 B
ATOM 2058 CG ASN B 86 67.998 -4.270 42.203 1.00 72.19 B
ATOM 2059 OD1 ASN B 86 68.893 -4.118 41.357 1.00 78.13 B
ATOM 2060 ND2 ASN B 86 68.267 -4.538 43.491 1.00 69.98 B
ATOM 2061 C ASN B 86 67.079 -1.724 41.919 1.00 67.55 B
ATOM 2062 O ASN B 86 67.833 -1.094 41.159 1.00 60.40 B
ATOM 2063 N ASN B 87 67.065 -1.566 43.242 1.00 66.30 B
ATOM 2064 CA ASN B 87 67.993 -0.683 43.941 1.00 63.29 B
ATOM 2065 CB ASN B 87 69.347 -1.388 44.065 1.00 60.33 B
ATOM 2066 CG ASN B 87 69.653 -1.810 45.486 1.00 66.92 B
ATOM 2067 OD1 ASN B 87 68.808 -2.399 46.168 1.00 67.13 B
ATOM 2068 ND2 ASN B 87 70.869 -1.514 45.944 1.00 64.08 B
ATOM 2069 C ASN B 87 68.190 0.719 43.353 1.00 57.44 B
ATOM 2070 O ASN B 87 69.284 1.292 43.420 1.00 48.13 B
ATOM 2071 N GLU B 88 67.127 1.271 42.786 1.00 63.51 B
ATOM 2072 CA GLU B 88 67.182 2.606 42.216 1.00 62.47 B
ATOM 2073 CB GLU B 88 67.355 2.515 40.700 1.00 64.95 B
ATOM 2074 CG GLU B 88 68.780 2.114 40.335 1.00 71.18 B
ATOM 2075 CD GLU B 88 68.889 1.298 39.060 1.00 76.32 B
ATOM 2076 OE1 GLU B 88 68.210 0.247 38.959 1.00 78.64 B
ATOM 2077 OE2 GLU B 88 69.676 1.704 38.168 1.00 71.58 B
ATOM 2078 C GLU B 88 65.866 3.221 42.617 1.00 61.06 B
ATOM 2079 O GLU B 88 65.421 4.239 42.075 1.00 58.57 B
ATOM 2080 N ASP B 89 65.275 2.567 43.614 1.00 60.48 B
ATOM 2081 CA ASP B 89 63.997 2.945 44.194 1.00 57.92 B
ATOM 2082 CB ASP B 89 63.171 1.686 44.499 1.00 59.10 B
ATOM 2083 CG ASP B 89 64.031 0.477 44.834 1.00 50.51 B
ATOM 2084 OD1 ASP B 89 65.024 0.210 44.107 1.00 56.72 B
ATOM 2085 OD2 ASP B 89 63.681 -0.218 45.819 1.00 57.24 B
ATOM 2086 C ASP B 89 64.135 3.803 45.448 1.00 57.89 B
ATOM 2087 O ASP B 89 63.168 4.417 45.911 1.00 57.84 B
ATOM 2088 N CYS B 90 65.343 3.843 45.991 1.00 56.51 B
ATOM 2089 CA CYS B 90 65.614 4.643 47.169 1.00 53.91 B
ATOM 2090 C CYS B 90 65.585 6.112 46.778 1.00 52.21 B
ATOM 2091 O CYS B 90 66.378 6.562 45.961 1.00 54.89 B
ATOM 2092 CB CYS B 90 66.963 4.244 47.733 1.00 52.67 B
ATOM 2093 SG CYS B 90 66.930 2.491 48.207 1.00 58.35 B
ATOM 2094 N VAL B 91 64.656 6.851 47.369 1.00 54.33 B
ATOM 2095 CA VAL B 91 64.486 8.259 47.052 1.00 50.92 B
ATOM 2096 CB VAL B 91 63.024 8.650 47.084 1.00 52.89 B
ATOM 2097 CG1 VAL B 91 62.894 10.152 46.844 1.00 50.95 B
ATOM 2098 CG2 VAL B 91 62.257 7.825 46.050 1.00 46.64 B
ATOM 2099 C VAL B 91 65.203 9.245 47.924 1.00 53.45 B
ATOM 2100 O VAL B 91 65.173 9.153 49.144 1.00 52.56 B
ATOM 2101 N GLU B 92 65.835 10.207 47.274 1.00 55.27 B
ATOM 2102 CA GLU B 92 66.538 11.246 47.984 1.00 56.96 B
ATOM 2103 CB GLU B 92 67.887 11.530 47.326 1.00 54.28 B
ATOM 2104 CG GLU B 92 67.791 11.966 45.881 1.00 59.52 B
ATOM 2105 CD GLU B 92 69.056 12.646 45.391 1.00 61.12 B
ATOM 2106 OE1 GLU B 92 69.388 13.729 45.913 1.00 58.17 B
ATOM 2107 OE2 GLU B 92 69.719 12.098 44.486 1.00 62.51 B
ATOM 2108 C GLU B 92 65.639 12.471 47.904 1.00 61.53 B
ATOM 2109 O GLU B 92 64.660 12.476 47.161 1.00 60.92 B
ATOM 2110 N ILE B 93 65.962 13.497 48.682 1.00 56.10 B
ATOM 2111 CA ILE B 93 65.183 14.718 48.689 1.00 54.99 B

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ATOM	2112	CB	ILE	B	93	64.327	14.820	49.976	1.00	56.72	B
ATOM	2113	CG2	ILE	B	93	65.220	14.981	51.183	1.00	53.79	B
ATOM	2114	CG1	ILE	B	93	63.354	15.998	49.870	1.00	51.46	B
ATOM	2115	CD1	ILE	B	93	62.194	15.958	50.856	1.00	46.98	B
ATOM	2116	C	ILE	B	93	66.145	15.896	48.580	1.00	53.37	B
ATOM	2117	O	ILE	B	93	67.091	16.025	49.348	1.00	56.00	B
ATOM	2118	N	TYR	B	94	65.902	16.745	47.592	1.00	51.03	B
ATOM	2119	CA	TYR	B	94	66.740	17.911	47.334	1.00	55.90	B
ATOM	2120	CB	TYR	B	94	66.295	18.570	46.026	1.00	56.31	B
ATOM	2121	CG	TYR	B	94	66.202	17.617	44.856	1.00	53.53	B
ATOM	2122	CD1	TYR	B	94	67.307	17.378	44.031	1.00	63.48	B
ATOM	2123	CE1	TYR	B	94	67.232	16.463	42.985	1.00	68.75	B
ATOM	2124	CD2	TYR	B	94	65.020	16.918	44.600	1.00	52.98	B
ATOM	2125	CE2	TYR	B	94	64.933	16.002	43.561	1.00	61.28	B
ATOM	2126	CZ	TYR	B	94	66.040	15.775	42.754	1.00	61.71	B
ATOM	2127	OH	TYR	B	94	65.956	14.865	41.718	1.00	65.78	B
ATOM	2128	C	TYR	B	94	66.660	18.935	48.451	1.00	60.68	B
ATOM	2129	O	TYR	B	94	65.720	19.720	48.487	1.00	61.68	B
ATOM	2130	N	ILE	B	95	67.627	18.946	49.362	1.00	58.19	B
ATOM	2131	CA	ILE	B	95	67.592	19.935	50.443	1.00	58.40	B
ATOM	2132	CB	ILE	B	95	68.154	19.382	51.761	1.00	61.69	B
ATOM	2133	CG2	ILE	B	95	68.186	20.480	52.801	1.00	58.97	B
ATOM	2134	CG1	ILE	B	95	67.301	18.198	52.230	1.00	55.63	B
ATOM	2135	CD1	ILE	B	95	65.813	18.463	52.265	1.00	51.24	B
ATOM	2136	C	ILE	B	95	68.365	21.188	50.062	1.00	57.55	B
ATOM	2137	O	ILE	B	95	69.567	21.146	49.769	1.00	53.65	B
ATOM	2138	N	LYS	B	96	67.658	22.308	50.088	1.00	59.82	B
ATOM	2139	CA	LYS	B	96	68.237	23.577	49.706	1.00	61.85	B
ATOM	2140	CB	LYS	B	96	69.405	23.937	50.625	1.00	59.14	B
ATOM	2141	CG	LYS	B	96	68.943	24.537	51.956	1.00	62.99	B
ATOM	2142	CD	LYS	B	96	70.125	24.932	52.853	1.00	65.46	B
ATOM	2143	CE	LYS	B	96	69.710	25.838	54.037	1.00	61.45	B
ATOM	2144	NZ	LYS	B	96	68.704	25.266	54.992	1.00	67.63	B
ATOM	2145	C	LYS	B	96	68.675	23.464	48.250	1.00	62.40	B
ATOM	2146	O	LYS	B	96	69.673	24.059	47.828	1.00	58.07	B
ATOM	2147	N	SER	B	97	67.890	22.682	47.503	1.00	64.74	B
ATOM	2148	CA	SER	B	97	68.073	22.436	46.072	1.00	70.61	B
ATOM	2149	CB	SER	B	97	67.026	21.436	45.577	1.00	72.80	B
ATOM	2150	OG	SER	B	97	67.103	21.246	44.176	1.00	72.28	B
ATOM	2151	C	SER	B	97	67.926	23.741	45.285	1.00	71.84	B
ATOM	2152	O	SER	B	97	67.005	24.533	45.534	1.00	71.87	B
ATOM	2153	N	PRO	B	98	68.823	23.969	44.306	1.00	73.62	B
ATOM	2154	CD	PRO	B	98	69.940	23.091	43.898	1.00	72.87	B
ATOM	2155	CA	PRO	B	98	68.796	25.183	43.485	1.00	75.06	B
ATOM	2156	CB	PRO	B	98	70.197	25.212	42.884	1.00	72.29	B
ATOM	2157	CG	PRO	B	98	70.448	23.762	42.627	1.00	75.90	B
ATOM	2158	C	PRO	B	98	67.720	25.174	42.416	1.00	75.09	B
ATOM	2159	O	PRO	B	98	67.142	26.212	42.097	1.00	77.98	B
ATOM	2160	N	SER	B	99	67.446	23.995	41.875	1.00	72.01	B
ATOM	2161	CA	SER	B	99	66.464	23.877	40.816	1.00	70.54	B
ATOM	2162	CB	SER	B	99	67.062	23.092	39.641	1.00	65.12	B
ATOM	2163	OG	SER	B	99	67.467	21.789	40.035	1.00	67.13	B
ATOM	2164	C	SER	B	99	65.131	23.262	41.208	1.00	75.61	B
ATOM	2165	O	SER	B	99	64.234	23.171	40.370	1.00	80.78	B
ATOM	2166	N	ALA	B	100	64.980	22.839	42.460	1.00	70.88	B
ATOM	2167	CA	ALA	B	100	63.708	22.243	42.874	1.00	69.85	B
ATOM	2168	CB	ALA	B	100	63.310	21.127	41.904	1.00	69.94	B
ATOM	2169	C	ALA	B	100	63.692	21.711	44.295	1.00	64.88	B
ATOM	2170	O	ALA	B	100	63.513	20.517	44.527	1.00	62.23	B
ATOM	2171	N	PRO	B	101	63.866	22.597	45.271	1.00	64.75	B
ATOM	2172	CD	PRO	B	101	64.008	24.057	45.187	1.00	68.10	B
ATOM	2173	CA	PRO	B	101	63.858	22.156	46.662	1.00	60.25	B
ATOM	2174	CB	PRO	B	101	64.039	23.462	47.437	1.00	63.27	B
ATOM	2175	CG	PRO	B	101	63.457	24.489	46.520	1.00	63.35	B
ATOM	2176	C	PRO	B	101	62.580	21.415	47.047	1.00	61.24	B
ATOM	2177	O	PRO	B	101	61.530	21.583	46.416	1.00	66.51	B

ATOM 2178 N GLY B 102 62.691 20.590 48.084 1.00 54.67 B
ATOM 2179 CA GLY B 102 61.555 19.830 48.560 1.00 51.04 B
ATOM 2180 C GLY B 102 61.179 18.688 47.643 1.00 55.64 B
ATOM 2181 O GLY B 102 60.633 17.680 48.091 1.00 51.84 B
ATOM 2182 N LYS B 103 61.475 18.837 46.359 1.00 59.55 B
ATOM 2183 CA LYS B 103 61.157 17.811 45.376 1.00 61.51 B
ATOM 2184 CB LYS B 103 61.540 18.318 43.986 1.00 68.81 B
ATOM 2185 CG LYS B 103 60.362 18.710 43.109 1.00 67.85 B
ATOM 2186 CD LYS B 103 59.529 19.834 43.696 1.00 76.23 B
ATOM 2187 CE LYS B 103 58.343 20.145 42.794 1.00 78.52 B
ATOM 2188 NZ LYS B 103 58.785 20.345 41.384 1.00 73.57 B
ATOM 2189 C LYS B 103 61.827 16.453 45.631 1.00 61.71 B
ATOM 2190 O LYS B 103 62.956 16.380 46.122 1.00 60.40 B
ATOM 2191 N TRP B 104 61.122 15.376 45.293 1.00 59.82 B
ATOM 2192 CA TRP B 104 61.669 14.034 45.470 1.00 56.69 B
ATOM 2193 CB TRP B 104 60.595 13.042 45.937 1.00 55.42 B
ATOM 2194 CG TRP B 104 60.019 13.293 47.304 1.00 51.96 B
ATOM 2195 CD2 TRP B 104 58.789 12.768 47.814 1.00 48.54 B
ATOM 2196 CE2 TRP B 104 58.614 13.297 49.109 1.00 52.30 B
ATOM 2197 CE3 TRP B 104 57.815 11.904 47.299 1.00 44.37 B
ATOM 2198 CD1 TRP B 104 60.534 14.089 48.286 1.00 48.11 B
ATOM 2199 NE1 TRP B 104 59.693 14.099 49.374 1.00 53.81 B
ATOM 2200 CZ2 TRP B 104 57.503 12.994 49.893 1.00 50.06 B
ATOM 2201 CZ3 TRP B 104 56.708 11.602 48.076 1.00 49.64 B
ATOM 2202 CH2 TRP B 104 56.561 12.146 49.358 1.00 50.50 B
ATOM 2203 C TRP B 104 62.283 13.505 44.174 1.00 59.37 B
ATOM 2204 O TRP B 104 62.202 14.141 43.133 1.00 59.98 B
ATOM 2205 N ASN B 105 62.875 12.319 44.248 1.00 58.31 B
ATOM 2206 CA ASN B 105 63.524 11.708 43.102 1.00 59.79 B
ATOM 2207 CB ASN B 105 64.627 12.636 42.600 1.00 63.20 B
ATOM 2208 CG ASN B 105 65.631 11.928 41.721 1.00 71.33 B
ATOM 2209 OD1 ASN B 105 65.262 11.238 40.776 1.00 68.56 B
ATOM 2210 ND2 ASN B 105 66.911 12.101 42.025 1.00 63.96 B
ATOM 2211 C ASN B 105 64.122 10.368 43.512 1.00 60.05 B
ATOM 2212 O ASN B 105 64.925 10.316 44.450 1.00 56.41 B
ATOM 2213 N ASP B 106 63.732 9.290 42.825 1.00 59.17 B
ATOM 2214 CA ASP B 106 64.240 7.948 43.135 1.00 60.97 B
ATOM 2215 CB ASP B 106 63.372 6.876 42.463 1.00 60.16 B
ATOM 2216 CG ASP B 106 63.188 7.104 40.961 1.00 63.26 B
ATOM 2217 OD1 ASP B 106 62.850 8.242 40.549 1.00 56.13 B
ATOM 2218 OD2 ASP B 106 63.364 6.124 40.195 1.00 62.51 B
ATOM 2219 C ASP B 106 65.680 7.853 42.674 1.00 62.65 B
ATOM 2220 O ASP B 106 66.140 8.721 41.944 1.00 59.15 B
ATOM 2221 N GLU B 107 66.401 6.817 43.085 1.00 61.60 B
ATOM 2222 CA GLU B 107 67.812 6.716 42.698 1.00 59.69 B
ATOM 2223 CB GLU B 107 68.535 7.989 43.170 1.00 60.51 B
ATOM 2224 CG GLU B 107 70.038 8.008 43.019 1.00 68.54 B
ATOM 2225 CD GLU B 107 70.501 8.327 41.613 1.00 71.45 B
ATOM 2226 OE1 GLU B 107 70.418 7.439 40.729 1.00 75.81 B
ATOM 2227 OE2 GLU B 107 70.953 9.477 41.397 1.00 72.86 B
ATOM 2228 C GLU B 107 68.520 5.460 43.248 1.00 59.23 B
ATOM 2229 O GLU B 107 68.007 4.775 44.140 1.00 56.56 B
ATOM 2230 N HIS B 108 69.706 5.168 42.713 1.00 58.33 B
ATOM 2231 CA HIS B 108 70.487 3.999 43.126 1.00 60.68 B
ATOM 2232 CB HIS B 108 71.788 3.937 42.315 1.00 70.29 B
ATOM 2233 CG HIS B 108 72.450 2.595 42.332 1.00 82.31 B
ATOM 2234 CD2 HIS B 108 73.757 2.245 42.287 1.00 83.53 B
ATOM 2235 ND1 HIS B 108 71.739 1.415 42.339 1.00 86.55 B
ATOM 2236 CE1 HIS B 108 72.578 0.395 42.296 1.00 89.08 B
ATOM 2237 NE2 HIS B 108 73.809 0.871 42.263 1.00 88.28 B
ATOM 2238 C HIS B 108 70.781 3.985 44.633 1.00 58.37 B
ATOM 2239 O HIS B 108 71.425 4.896 45.180 1.00 53.05 B
ATOM 2240 N CYS B 109 70.298 2.925 45.282 1.00 55.73 B
ATOM 2241 CA CYS B 109 70.439 2.733 46.719 1.00 52.62 B
ATOM 2242 C CYS B 109 71.870 2.570 47.200 1.00 55.63 B
ATOM 2243 O CYS B 109 72.092 2.408 48.401 1.00 56.43 B

PDB-ENTRY 1GVC

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ATOM   2244  CB  CYS B 109      69.628   1.519  47.169  1.00 49.77       B
ATOM   2245  SG  CYS B 109      67.874   1.550  46.675  1.00 53.34       B
ATOM   2246  N   LEU B 110      72.835   2.595  46.284  1.00 57.67       B
ATOM   2247  CA  LEU B 110      74.239   2.460  46.669  1.00 59.36       B
ATOM   2248  CB  LEU B 110      74.954   1.451  45.768  1.00 60.54       B
ATOM   2249  CG  LEU B 110      74.792  -0.028  46.146  1.00 74.18       B
ATOM   2250  CD1 LEU B 110      75.029  -0.925  44.935  1.00 69.39       B
ATOM   2251  CD2 LEU B 110      75.764  -0.366  47.270  1.00 71.34       B
ATOM   2252  C   LEU B 110      74.930   3.808  46.592  1.00 60.09       B
ATOM   2253  O   LEU B 110      76.153   3.906  46.729  1.00 63.80       B
ATOM   2254  N   LYS B 111      74.128   4.846  46.378  1.00 61.66       B
ATOM   2255  CA  LYS B 111      74.637   6.201  46.279  1.00 61.53       B
ATOM   2256  CB  LYS B 111      73.680   7.058  45.457  1.00 70.20       B
ATOM   2257  CG  LYS B 111      74.169   7.310  44.038  1.00 79.97       B
ATOM   2258  CD  LYS B 111      75.500   8.066  44.055  1.00 84.74       B
ATOM   2259  CE  LYS B 111      76.024   8.388  42.646  1.00 90.69       B
ATOM   2260  NZ  LYS B 111      76.545   7.206  41.880  1.00 97.99       B
ATOM   2261  C   LYS B 111      74.862   6.812  47.654  1.00 64.76       B
ATOM   2262  O   LYS B 111      74.014   6.722  48.544  1.00 56.78       B
ATOM   2263  N   LYS B 112      76.014   7.447  47.816  1.00 65.77       B
ATOM   2264  CA  LYS B 112      76.383   8.039  49.091  1.00 64.34       B
ATOM   2265  CB  LYS B 112      77.914   8.157  49.181  1.00 65.47       B
ATOM   2266  CG  LYS B 112      78.632   6.801  49.196  1.00 73.30       B
ATOM   2267  CD  LYS B 112      80.133   6.938  49.427  1.00 66.32       B
ATOM   2268  CE  LYS B 112      80.841   5.577  49.359  1.00 74.64       B
ATOM   2269  NZ  LYS B 112      80.808   4.962  47.995  1.00 75.32       B
ATOM   2270  C   LYS B 112      75.735   9.376  49.452  1.00 66.47       B
ATOM   2271  O   LYS B 112      76.306  10.443  49.207  1.00 65.27       B
ATOM   2272  N   LYS B 113      74.555   9.302  50.068  1.00 60.38       B
ATOM   2273  CA  LYS B 113      73.821  10.494  50.494  1.00 58.07       B
ATOM   2274  CB  LYS B 113      72.389  10.420  49.979  1.00 57.49       B
ATOM   2275  CG  LYS B 113      72.325  10.171  48.487  1.00 49.93       B
ATOM   2276  CD  LYS B 113      70.927  10.370  47.941  1.00 52.30       B
ATOM   2277  CE  LYS B 113      70.994  10.508  46.439  1.00 57.35       B
ATOM   2278  NZ  LYS B 113      71.933  11.601  46.035  1.00 53.91       B
ATOM   2279  C   LYS B 113      73.820  10.597  52.018  1.00 58.28       B
ATOM   2280  O   LYS B 113      74.278   9.669  52.693  1.00 57.15       B
ATOM   2281  N   HIS B 114      73.330  11.719  52.555  1.00 55.58       B
ATOM   2282  CA  HIS B 114      73.258  11.914  54.007  1.00 50.91       B
ATOM   2283  CB  HIS B 114      73.255  13.391  54.369  1.00 57.17       B
ATOM   2284  CG  HIS B 114      74.488  14.114  53.946  1.00 61.06       B
ATOM   2285  CD2 HIS B 114      75.467  14.705  54.669  1.00 64.84       B
ATOM   2286  ND1 HIS B 114      74.842  14.265  52.624  1.00 64.36       B
ATOM   2287  CE1 HIS B 114      75.989  14.916  52.550  1.00 68.09       B
ATOM   2288  NE2 HIS B 114      76.390  15.195  53.777  1.00 64.19       B
ATOM   2289  C   HIS B 114      71.965  11.299  54.494  1.00 53.92       B
ATOM   2290  O   HIS B 114      70.977  11.258  53.760  1.00 51.58       B
ATOM   2291  N   ALA B 115      71.956  10.813  55.726  1.00 53.95       B
ATOM   2292  CA  ALA B 115      70.748  10.204  56.248  1.00 48.60       B
ATOM   2293  CB  ALA B 115      71.090   9.159  57.280  1.00 47.41       B
ATOM   2294  C   ALA B 115      69.891  11.286  56.864  1.00 50.74       B
ATOM   2295  O   ALA B 115      70.408  12.185  57.537  1.00 54.11       B
ATOM   2296  N   LEU B 116      68.585  11.202  56.615  1.00 49.56       B
ATOM   2297  CA  LEU B 116      67.605  12.158  57.145  1.00 44.29       B
ATOM   2298  CB  LEU B 116      66.713  12.676  56.025  1.00 48.75       B
ATOM   2299  CG  LEU B 116      65.784  13.806  56.421  1.00 49.66       B
ATOM   2300  CD1 LEU B 116      66.588  15.013  56.854  1.00 49.70       B
ATOM   2301  CD2 LEU B 116      64.915  14.135  55.250  1.00 43.85       B
ATOM   2302  C   LEU B 116      66.767  11.408  58.163  1.00 51.56       B
ATOM   2303  O   LEU B 116      65.744  10.822  57.830  1.00 47.33       B
ATOM   2304  N   CYS B 117      67.221  11.442  59.407  1.00 49.02       B
ATOM   2305  CA  CYS B 117      66.576  10.727  60.487  1.00 51.53       B
ATOM   2306  C   CYS B 117      65.442  11.441  61.192  1.00 54.82       B
ATOM   2307  O   CYS B 117      65.266  12.646  61.070  1.00 63.80       B
ATOM   2308  CB  CYS B 117      67.617  10.335  61.538  1.00 50.85       B
ATOM   2309  SG  CYS B 117      69.065   9.408  60.946  1.00 54.50       B
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4BG5.pdb 4BG5.pdb 4BG5.pdb

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ATOM   2310  N   TYR B 118      64.682  10.655  61.942  1.00 56.21      B
ATOM   2311  CA  TYR B 118      63.569  11.152  62.727  1.00 54.28      B
ATOM   2312  CB  TYR B 118      62.268  11.157  61.914  1.00 46.29      B
ATOM   2313  CG  TYR B 118      61.427   9.890  62.011  1.00 47.26      B
ATOM   2314  CD1 TYR B 118      61.654   8.799  61.171  1.00 43.25      B
ATOM   2315  CE1 TYR B 118      60.854   7.663  61.230  1.00 37.03      B
ATOM   2316  CD2 TYR B 118      60.381   9.802  62.921  1.00 46.45      B
ATOM   2317  CE2 TYR B 118      59.583   8.668  62.989  1.00 48.36      B
ATOM   2318  CZ  TYR B 118      59.821   7.605  62.140  1.00 54.64      B
ATOM   2319  OH  TYR B 118      59.008   6.495  62.202  1.00 55.90      B
ATOM   2320  C   TYR B 118      63.402  10.255  63.955  1.00 54.17      B
ATOM   2321  O   TYR B 118      63.629   9.039  63.896  1.00 53.58      B
ATOM   2322  N   THR B 119      63.004  10.860  65.068  1.00 58.53      B
ATOM   2323  CA  THR B 119      62.797  10.122  66.301  1.00 52.86      B
ATOM   2324  CB  THR B 119      63.661  10.705  67.418  1.00 49.29      B
ATOM   2325  OG1 THR B 119      65.022  10.720  66.976  1.00 46.97      B
ATOM   2326  CG2 THR B 119      63.548   9.869  68.695  1.00 47.60      B
ATOM   2327  C   THR B 119      61.329  10.200  66.688  1.00 48.43      B
ATOM   2328  O   THR B 119      60.829  11.268  67.030  1.00 54.11      B
ATOM   2329  N   ALA B 120      60.635   9.068  66.616  1.00 50.79      B
ATOM   2330  CA  ALA B 120      59.226   9.019  66.963  1.00 51.81      B
ATOM   2331  CB  ALA B 120      58.758   7.593  66.976  1.00 46.58      B
ATOM   2332  C   ALA B 120      58.991   9.652  68.323  1.00 58.36      B
ATOM   2333  O   ALA B 120      59.714   9.370  69.279  1.00 61.15      B
ATOM   2334  N   SER B 121      57.979  10.505  68.412  1.00 60.36      B
ATOM   2335  CA  SER B 121      57.664  11.161  69.669  1.00 61.49      B
ATOM   2336  CB  SER B 121      57.229  12.594  69.402  1.00 56.04      B
ATOM   2337  OG  SER B 121      58.179  13.237  68.590  1.00 60.88      B
ATOM   2338  C   SER B 121      56.572  10.425  70.452  1.00 66.46      B
ATOM   2339  O   SER B 121      56.447  10.601  71.662  1.00 66.84      B
ATOM   2340  N   CYS B 122      55.787   9.602  69.764  1.00 68.57      B
ATOM   2341  CA  CYS B 122      54.715   8.858  70.409  1.00 70.85      B
ATOM   2342  C   CYS B 122      55.205   7.623  71.128  1.00 78.80      B
ATOM   2343  O   CYS B 122      55.566   6.636  70.501  1.00 81.08      B
ATOM   2344  CB  CYS B 122      53.670   8.417  69.393  1.00 66.25      B
ATOM   2345  SG  CYS B 122      52.739   9.735  68.559  1.00 62.10      B
ATOM   2346  N   GLN B 123      55.203   7.677  72.451  1.00 87.14      B
ATOM   2347  CA  GLN B 123      55.622   6.537  73.254  1.00 90.79      B
ATOM   2348  CB  GLN B 123      56.181   7.012  74.607  1.00 96.91      B
ATOM   2349  CG  GLN B 123      57.388   7.975  74.506  1.00105.37      B
ATOM   2350  CD  GLN B 123      58.526   7.454  73.612  1.00110.94      B
ATOM   2351  OE1 GLN B 123      59.058   6.362  73.832  1.00111.41      B
ATOM   2352  NE2 GLN B 123      58.906   8.247  72.606  1.00112.20      B
ATOM   2353  C   GLN B 123      54.367   5.686  73.450  1.00 94.05      B
ATOM   2354  O   GLN B 123      53.264   6.157  73.191  1.00 96.75      B
ATOM   2355  N   ASP B 124      54.514   4.437  73.885  1.00 93.62      B
ATOM   2356  CA  ASP B 124      53.336   3.595  74.079  1.00 90.07      B
ATOM   2357  CB  ASP B 124      53.746   2.182  74.503  1.00 93.98      B
ATOM   2358  CG  ASP B 124      52.771   1.119  74.011  1.00 97.86      B
ATOM   2359  OD1 ASP B 124      51.584   1.141  74.406  1.00 98.32      B
ATOM   2360  OD2 ASP B 124      53.196   0.256  73.217  1.00 99.40      B
ATOM   2361  C   ASP B 124      52.466   4.247  75.152  1.00 86.49      B
ATOM   2362  O   ASP B 124      51.245   4.091  75.169  1.00 81.54      B
ATOM   2363  N   MET B 125      53.122   4.988  76.037  1.00 78.83      B
ATOM   2364  CA  MET B 125      52.463   5.712  77.120  1.00 80.05      B
ATOM   2365  CB  MET B 125      53.525   6.446  77.946  1.00 86.99      B
ATOM   2366  CG  MET B 125      54.575   5.535  78.548  1.00 97.96      B
ATOM   2367  SD  MET B 125      53.933   4.571  79.944  1.00111.66      B
ATOM   2368  CE  MET B 125      53.137   3.161  79.098  1.00104.92      B
ATOM   2369  C   MET B 125      51.479   6.732  76.536  1.00 77.54      B
ATOM   2370  O   MET B 125      50.275   6.700  76.806  1.00 76.47      B
ATOM   2371  N   SER B 126      52.042   7.637  75.740  1.00 75.55      B
ATOM   2372  CA  SER B 126      51.352   8.720  75.045  1.00 73.93      B
ATOM   2373  CB  SER B 126      51.785   8.705  73.590  1.00 75.52      B
ATOM   2374  OG  SER B 126      51.412   7.469  73.005  1.00 81.05      B
ATOM   2375  C   SER B 126      49.823   8.793  75.095  1.00 69.25      B
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ATOM   2376  O   SER B 126      49.116   7.818  74.796  1.00 69.05      B
ATOM   2377  N   CYS B 127      49.335   9.980  75.453  1.00 58.65      B
ATOM   2378  CA  CYS B 127      47.914  10.273  75.530  1.00 53.49      B
ATOM   2379  C   CYS B 127      47.136   9.366  76.454  1.00 53.60      B
ATOM   2380  O   CYS B 127      46.034   8.943  76.133  1.00 52.83      B
ATOM   2381  CB  CYS B 127      47.308  10.222  74.138  1.00 54.18      B
ATOM   2382  SG  CYS B 127      48.233  11.180  72.904  1.00 58.87      B
ATOM   2383  N   SER B 128      47.728   9.066  77.599  1.00 54.38      B
ATOM   2384  CA  SER B 128      47.113   8.218  78.621  1.00 53.05      B
ATOM   2385  CB  SER B 128      46.103   9.049  79.415  1.00 54.75      B
ATOM   2386  OG  SER B 128      46.732  10.192  79.983  1.00 52.51      B
ATOM   2387  C   SER B 128      46.452   6.908  78.174  1.00 55.08      B
ATOM   2388  O   SER B 128      45.721   6.291  78.951  1.00 54.78      B
ATOM   2389  N   LYS B 129      46.735   6.471  76.949  1.00 57.45      B
ATOM   2390  CA  LYS B 129      46.145   5.252  76.410  1.00 61.57      B
ATOM   2391  CB  LYS B 129      46.347   4.074  77.363  1.00 63.03      B
ATOM   2392  CG  LYS B 129      47.773   3.531  77.377  1.00 74.26      B
ATOM   2393  CD  LYS B 129      47.814   2.033  77.704  1.00 77.70      B
ATOM   2394  CE  LYS B 129      49.162   1.415  77.340  1.00 85.12      B
ATOM   2395  NZ  LYS B 129      49.087  -0.071  77.248  1.00 92.08      B
ATOM   2396  C   LYS B 129      44.665   5.486  76.199  1.00 63.32      B
ATOM   2397  O   LYS B 129      43.872   4.550  76.141  1.00 65.25      B
ATOM   2398  N   GLN B 130      44.315   6.761  76.071  1.00 61.77      B
ATOM   2399  CA  GLN B 130      42.935   7.187  75.884  1.00 60.47      B
ATOM   2400  CB  GLN B 130      42.495   8.020  77.079  1.00 59.21      B
ATOM   2401  CG  GLN B 130      42.202   7.197  78.298  1.00 58.39      B
ATOM   2402  CD  GLN B 130      42.249   8.024  79.535  1.00 61.92      B
ATOM   2403  OE1 GLN B 130      41.916   9.203  79.505  1.00 68.34      B
ATOM   2404  NE2 GLN B 130      42.656   7.417  80.643  1.00 63.71      B
ATOM   2405  C   GLN B 130      42.682   7.982  74.616  1.00 59.97      B
ATOM   2406  O   GLN B 130      41.650   8.644  74.500  1.00 53.01      B
ATOM   2407  N   GLY B 131      43.616   7.919  73.674  1.00 54.49      B
ATOM   2408  CA  GLY B 131      43.453   8.641  72.427  1.00 54.78      B
ATOM   2409  C   GLY B 131      44.548   8.299  71.443  1.00 57.00      B
ATOM   2410  O   GLY B 131      45.556   7.730  71.826  1.00 48.91      B
ATOM   2411  N   GLU B 132      44.362   8.646  70.178  1.00 55.62      B
ATOM   2412  CA  GLU B 132      45.357   8.352  69.166  1.00 57.81      B
ATOM   2413  CB  GLU B 132      44.677   8.272  67.796  1.00 61.20      B
ATOM   2414  CG  GLU B 132      45.603   8.015  66.613  1.00 71.79      B
ATOM   2415  CD  GLU B 132      44.863   8.010  65.285  1.00 78.49      B
ATOM   2416  OE1 GLU B 132      45.515   7.796  64.239  1.00 76.78      B
ATOM   2417  OE2 GLU B 132      43.631   8.220  65.292  1.00 79.30      B
ATOM   2418  C   GLU B 132      46.435   9.424  69.170  1.00 55.91      B
ATOM   2419  O   GLU B 132      46.143  10.611  69.222  1.00 59.23      B
ATOM   2420  N   CYS B 133      47.685   8.987  69.140  1.00 53.24      B
ATOM   2421  CA  CYS B 133      48.829   9.890  69.118  1.00 55.89      B
ATOM   2422  C   CYS B 133      49.260  10.040  67.674  1.00 58.35      B
ATOM   2423  O   CYS B 133      49.381   9.047  66.953  1.00 66.70      B
ATOM   2424  CB  CYS B 133      50.000   9.302  69.893  1.00 53.55      B
ATOM   2425  SG  CYS B 133      51.459  10.385  69.986  1.00 55.44      B
ATOM   2426  N   LEU B 134      49.522  11.268  67.250  1.00 52.73      B
ATOM   2427  CA  LEU B 134      49.915  11.486  65.878  1.00 53.27      B
ATOM   2428  CB  LEU B 134      48.673  11.847  65.063  1.00 52.66      B
ATOM   2429  CG  LEU B 134      47.585  10.747  65.154  1.00 62.53      B
ATOM   2430  CD1 LEU B 134      46.282  11.182  64.489  1.00 58.47      B
ATOM   2431  CD2 LEU B 134      48.108   9.464  64.501  1.00 56.53      B
ATOM   2432  C   LEU B 134      50.967  12.563  65.815  1.00 55.07      B
ATOM   2433  O   LEU B 134      50.756  13.675  66.245  1.00 51.90      B
ATOM   2434  N   GLU B 135      52.112  12.203  65.266  1.00 44.16      B
ATOM   2435  CA  GLU B 135      53.255  13.092  65.153  1.00 49.59      B
ATOM   2436  CB  GLU B 135      54.339  12.419  64.306  1.00 50.42      B
ATOM   2437  CG  GLU B 135      54.676  10.971  64.688  1.00 47.51      B
ATOM   2438  CD  GLU B 135      55.572  10.852  65.913  1.00 56.59      B
ATOM   2439  OE1 GLU B 135      56.530  11.654  66.024  1.00 47.22      B
ATOM   2440  OE2 GLU B 135      55.324   9.944  66.746  1.00 46.94      B
ATOM   2441  C   GLU B 135      53.001  14.475  64.574  1.00 50.05      B
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ATOM	2442	O	GLU	B	135	52.067	14.685	63.806	1.00	46.58	B
ATOM	2443	N	THR	B	136	53.866	15.410	64.961	1.00	51.97	B
ATOM	2444	CA	THR	B	136	53.858	16.782	64.471	1.00	54.01	B
ATOM	2445	CB	THR	B	136	53.031	17.719	65.341	1.00	53.80	B
ATOM	2446	OG1	THR	B	136	53.677	17.887	66.600	1.00	56.55	B
ATOM	2447	CG2	THR	B	136	51.661	17.160	65.561	1.00	43.27	B
ATOM	2448	C	THR	B	136	55.311	17.266	64.472	1.00	59.43	B
ATOM	2449	O	THR	B	136	56.188	16.638	65.062	1.00	59.55	B
ATOM	2450	N	ILE	B	137	55.565	18.387	63.812	1.00	60.29	B
ATOM	2451	CA	ILE	B	137	56.918	18.930	63.705	1.00	58.73	B
ATOM	2452	CB	ILE	B	137	56.914	20.214	62.834	1.00	53.28	B
ATOM	2453	CG2	ILE	B	137	58.342	20.692	62.572	1.00	51.19	B
ATOM	2454	CG1	ILE	B	137	56.194	19.926	61.515	1.00	60.24	B
ATOM	2455	CD1	ILE	B	137	56.087	21.111	60.634	1.00	48.84	B
ATOM	2456	C	ILE	B	137	57.587	19.237	65.036	1.00	59.70	B
ATOM	2457	O	ILE	B	137	57.456	20.343	65.561	1.00	63.34	B
ATOM	2458	N	GLY	B	138	58.303	18.258	65.584	1.00	61.88	B
ATOM	2459	CA	GLY	B	138	59.003	18.482	66.842	1.00	55.02	B
ATOM	2460	C	GLY	B	138	58.340	17.990	68.112	1.00	56.11	B
ATOM	2461	O	GLY	B	138	58.979	17.950	69.156	1.00	58.67	B
ATOM	2462	N	ASN	B	139	57.066	17.622	68.024	1.00	53.83	B
ATOM	2463	CA	ASN	B	139	56.327	17.125	69.177	1.00	54.22	B
ATOM	2464	CB	ASN	B	139	55.640	18.291	69.900	1.00	50.47	B
ATOM	2465	CG	ASN	B	139	55.144	17.910	71.293	1.00	55.21	B
ATOM	2466	OD1	ASN	B	139	55.882	17.324	72.084	1.00	63.14	B
ATOM	2467	ND2	ASN	B	139	53.900	18.255	71.600	1.00	50.18	B
ATOM	2468	C	ASN	B	139	55.289	16.082	68.747	1.00	50.79	B
ATOM	2469	O	ASN	B	139	55.623	15.089	68.104	1.00	48.28	B
ATOM	2470	N	TYR	B	140	54.037	16.307	69.131	1.00	48.88	B
ATOM	2471	CA	TYR	B	140	52.934	15.425	68.781	1.00	47.46	B
ATOM	2472	CB	TYR	B	140	53.166	14.007	69.285	1.00	49.94	B
ATOM	2473	CG	TYR	B	140	53.029	13.829	70.774	1.00	61.04	B
ATOM	2474	CD1	TYR	B	140	54.099	14.063	71.620	1.00	64.47	B
ATOM	2475	CE1	TYR	B	140	54.001	13.841	72.990	1.00	64.10	B
ATOM	2476	CD2	TYR	B	140	51.847	13.375	71.334	1.00	67.51	B
ATOM	2477	CE2	TYR	B	140	51.739	13.150	72.706	1.00	62.42	B
ATOM	2478	CZ	TYR	B	140	52.823	13.382	73.524	1.00	67.31	B
ATOM	2479	OH	TYR	B	140	52.747	13.135	74.872	1.00	78.14	B
ATOM	2480	C	TYR	B	140	51.667	15.960	69.409	1.00	48.84	B
ATOM	2481	O	TYR	B	140	51.701	16.947	70.128	1.00	53.24	B
ATOM	2482	N	THR	B	141	50.544	15.317	69.121	1.00	51.21	B
ATOM	2483	CA	THR	B	141	49.265	15.718	69.695	1.00	56.96	B
ATOM	2484	CB	THR	B	141	48.512	16.725	68.794	1.00	58.99	B
ATOM	2485	OG1	THR	B	141	47.928	16.052	67.672	1.00	59.54	B
ATOM	2486	CG2	THR	B	141	49.468	17.787	68.300	1.00	50.84	B
ATOM	2487	C	THR	B	141	48.413	14.470	69.924	1.00	60.04	B
ATOM	2488	O	THR	B	141	48.799	13.364	69.542	1.00	62.33	B
ATOM	2489	N	CYS	B	142	47.262	14.636	70.560	1.00	53.29	B
ATOM	2490	CA	CYS	B	142	46.409	13.496	70.846	1.00	49.40	B
ATOM	2491	C	CYS	B	142	45.050	13.630	70.188	1.00	54.36	B
ATOM	2492	O	CYS	B	142	44.662	14.722	69.767	1.00	58.87	B
ATOM	2493	CB	CYS	B	142	46.244	13.350	72.354	1.00	48.62	B
ATOM	2494	SG	CYS	B	142	47.796	13.122	73.273	1.00	51.91	B
ATOM	2495	N	SER	B	143	44.331	12.516	70.101	1.00	51.05	B
ATOM	2496	CA	SER	B	143	43.011	12.512	69.489	1.00	50.97	B
ATOM	2497	CB	SER	B	143	43.084	11.956	68.066	1.00	53.32	B
ATOM	2498	OG	SER	B	143	43.634	12.898	67.157	1.00	67.38	B
ATOM	2499	C	SER	B	143	42.019	11.690	70.286	1.00	56.71	B
ATOM	2500	O	SER	B	143	41.301	10.868	69.724	1.00	63.90	B
ATOM	2501	N	CYS	B	144	41.975	11.927	71.593	1.00	50.95	B
ATOM	2502	CA	CYS	B	144	41.084	11.215	72.508	1.00	57.05	B
ATOM	2503	C	CYS	B	144	39.942	10.453	71.849	1.00	54.09	B
ATOM	2504	O	CYS	B	144	39.268	10.960	70.960	1.00	51.62	B
ATOM	2505	CB	CYS	B	144	40.488	12.188	73.514	1.00	50.85	B
ATOM	2506	SG	CYS	B	144	41.629	13.478	74.087	1.00	56.63	B
ATOM	2507	N	TYR	B	145	39.724	9.227	72.298	1.00	57.18	B

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ATOM	2508	CA	TYR	B	145	38.647	8.412	71.765	1.00	59.82	B
ATOM	2509	CB	TYR	B	145	38.858	6.934	72.141	1.00	55.63	B
ATOM	2510	CG	TYR	B	145	40.236	6.341	71.820	1.00	52.39	B
ATOM	2511	CD1	TYR	B	145	40.677	6.192	70.502	1.00	50.50	B
ATOM	2512	CE1	TYR	B	145	41.921	5.601	70.218	1.00	55.74	B
ATOM	2513	CD2	TYR	B	145	41.079	5.888	72.848	1.00	49.45	B
ATOM	2514	CE2	TYR	B	145	42.321	5.299	72.574	1.00	54.66	B
ATOM	2515	CZ	TYR	B	145	42.733	5.157	71.261	1.00	61.44	B
ATOM	2516	OH	TYR	B	145	43.944	4.559	71.000	1.00	69.07	B
ATOM	2517	C	TYR	B	145	37.372	8.955	72.421	1.00	60.92	B
ATOM	2518	O	TYR	B	145	37.440	9.765	73.339	1.00	66.78	B
ATOM	2519	N	PRO	B	146	36.196	8.518	71.965	1.00	62.24	B
ATOM	2520	CD	PRO	B	146	35.883	7.554	70.901	1.00	64.28	B
ATOM	2521	CA	PRO	B	146	34.972	9.029	72.579	1.00	58.65	B
ATOM	2522	CB	PRO	B	146	33.865	8.283	71.839	1.00	65.89	B
ATOM	2523	CG	PRO	B	146	34.482	7.966	70.511	1.00	64.62	B
ATOM	2524	C	PRO	B	146	34.956	8.690	74.040	1.00	59.54	B
ATOM	2525	O	PRO	B	146	34.952	7.518	74.391	1.00	57.57	B
ATOM	2526	N	GLY	B	147	34.957	9.702	74.895	1.00	53.98	B
ATOM	2527	CA	GLY	B	147	34.910	9.433	76.316	1.00	45.14	B
ATOM	2528	C	GLY	B	147	35.996	10.118	77.084	1.00	44.26	B
ATOM	2529	O	GLY	B	147	35.882	10.286	78.281	1.00	54.19	B
ATOM	2530	N	PHE	B	148	37.046	10.525	76.392	1.00	43.78	B
ATOM	2531	CA	PHE	B	148	38.157	11.180	77.046	1.00	45.86	B
ATOM	2532	CB	PHE	B	148	39.398	10.324	76.905	1.00	46.24	B
ATOM	2533	CG	PHE	B	148	39.227	8.947	77.428	1.00	44.90	B
ATOM	2534	CD1	PHE	B	148	38.990	7.893	76.567	1.00	49.07	B
ATOM	2535	CD2	PHE	B	148	39.261	8.705	78.796	1.00	47.18	B
ATOM	2536	CE1	PHE	B	148	38.788	6.616	77.069	1.00	56.02	B
ATOM	2537	CE2	PHE	B	148	39.061	7.437	79.302	1.00	47.20	B
ATOM	2538	CZ	PHE	B	148	38.825	6.392	78.444	1.00	47.55	B
ATOM	2539	C	PHE	B	148	38.447	12.549	76.481	1.00	49.68	B
ATOM	2540	O	PHE	B	148	38.110	12.834	75.336	1.00	49.12	B
ATOM	2541	N	TYR	B	149	39.066	13.409	77.284	1.00	48.71	B
ATOM	2542	CA	TYR	B	149	39.423	14.741	76.815	1.00	43.96	B
ATOM	2543	CB	TYR	B	149	38.282	15.751	77.015	1.00	39.09	B
ATOM	2544	CG	TYR	B	149	37.885	16.099	78.441	1.00	42.42	B
ATOM	2545	CD1	TYR	B	149	36.822	15.464	79.059	1.00	43.39	B
ATOM	2546	CE1	TYR	B	149	36.402	15.843	80.329	1.00	43.55	B
ATOM	2547	CD2	TYR	B	149	38.528	17.126	79.142	1.00	46.36	B
ATOM	2548	CE2	TYR	B	149	38.112	17.512	80.415	1.00	39.42	B
ATOM	2549	CZ	TYR	B	149	37.046	16.865	80.998	1.00	44.90	B
ATOM	2550	OH	TYR	B	149	36.598	17.252	82.236	1.00	44.35	B
ATOM	2551	C	TYR	B	149	40.667	15.228	77.506	1.00	42.82	B
ATOM	2552	O	TYR	B	149	41.141	14.601	78.453	1.00	48.34	B
ATOM	2553	N	GLY	B	150	41.201	16.339	77.018	1.00	44.33	B
ATOM	2554	CA	GLY	B	150	42.398	16.905	77.604	1.00	43.53	B
ATOM	2555	C	GLY	B	150	43.479	16.983	76.557	1.00	48.94	B
ATOM	2556	O	GLY	B	150	43.469	16.183	75.634	1.00	47.15	B
ATOM	2557	N	PRO	B	151	44.420	17.933	76.652	1.00	53.93	B
ATOM	2558	CD	PRO	B	151	44.701	18.919	77.704	1.00	53.75	B
ATOM	2559	CA	PRO	B	151	45.454	17.981	75.623	1.00	55.25	B
ATOM	2560	CB	PRO	B	151	46.436	19.025	76.170	1.00	51.87	B
ATOM	2561	CG	PRO	B	151	46.205	18.999	77.645	1.00	52.49	B
ATOM	2562	C	PRO	B	151	46.089	16.616	75.406	1.00	54.47	B
ATOM	2563	O	PRO	B	151	46.568	16.311	74.313	1.00	50.32	B
ATOM	2564	N	GLU	B	152	46.072	15.799	76.455	1.00	49.40	B
ATOM	2565	CA	GLU	B	152	46.634	14.458	76.409	1.00	51.77	B
ATOM	2566	CB	GLU	B	152	47.826	14.351	77.349	1.00	54.62	B
ATOM	2567	CG	GLU	B	152	49.075	14.971	76.786	1.00	56.11	B
ATOM	2568	CD	GLU	B	152	50.179	13.968	76.659	1.00	57.38	B
ATOM	2569	OE1	GLU	B	152	49.896	12.755	76.683	1.00	51.06	B
ATOM	2570	OE2	GLU	B	152	51.335	14.390	76.526	1.00	52.82	B
ATOM	2571	C	GLU	B	152	45.588	13.432	76.791	1.00	51.35	B
ATOM	2572	O	GLU	B	152	45.903	12.315	77.199	1.00	43.90	B
ATOM	2573	N	CYS	B	153	44.334	13.836	76.663	1.00	51.37	B

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ATOM   2574  CA  CYS B 153      43.222  12.966  76.970  1.00 50.94      B
ATOM   2575  C   CYS B 153      43.319  12.422  78.367  1.00 47.19      B
ATOM   2576  O   CYS B 153      42.926  11.291  78.614  1.00 50.05      B
ATOM   2577  CB  CYS B 153      43.225  11.834  75.983  1.00 48.77      B
ATOM   2578  SG  CYS B 153      43.372  12.495  74.307  1.00 56.05      B
ATOM   2579  N   GLU B 154      43.833  13.239  79.280  1.00 47.89      B
ATOM   2580  CA  GLU B 154      44.010  12.814  80.654  1.00 44.39      B
ATOM   2581  CB  GLU B 154      45.178  13.545  81.315  1.00 45.85      B
ATOM   2582  CG  GLU B 154      45.051  15.044  81.395  1.00 44.59      B
ATOM   2583  CD  GLU B 154      45.537  15.733  80.148  1.00 48.29      B
ATOM   2584  OE1 GLU B 154      44.803  15.716  79.142  1.00 53.26      B
ATOM   2585  OE2 GLU B 154      46.659  16.286  80.176  1.00 45.34      B
ATOM   2586  C   GLU B 154      42.781  12.976  81.498  1.00 49.59      B
ATOM   2587  O   GLU B 154      42.730  12.457  82.613  1.00 46.60      B
ATOM   2588  N   TYR B 155      41.791  13.686  80.977  1.00 45.91      B
ATOM   2589  CA  TYR B 155      40.563  13.878  81.723  1.00 44.34      B
ATOM   2590  CB  TYR B 155      40.005  15.267  81.445  1.00 47.68      B
ATOM   2591  CG  TYR B 155      40.875  16.345  82.038  1.00 39.96      B
ATOM   2592  CD1 TYR B 155      40.972  16.497  83.414  1.00 43.54      B
ATOM   2593  CE1 TYR B 155      41.841  17.413  83.980  1.00 41.64      B
ATOM   2594  CD2 TYR B 155      41.670  17.150  81.235  1.00 41.17      B
ATOM   2595  CE2 TYR B 155      42.545  18.071  81.790  1.00 46.85      B
ATOM   2596  CZ  TYR B 155      42.623  18.191  83.167  1.00 45.54      B
ATOM   2597  OH  TYR B 155      43.494  19.085  83.733  1.00 42.84      B
ATOM   2598  C   TYR B 155      39.587  12.784  81.336  1.00 43.79      B
ATOM   2599  O   TYR B 155      39.661  12.250  80.239  1.00 43.05      B
ATOM   2600  N   VAL B 156      38.682  12.439  82.243  1.00 42.67      B
ATOM   2601  CA  VAL B 156      37.717  11.382  81.994  1.00 44.97      B
ATOM   2602  CB  VAL B 156      37.940  10.265  83.009  1.00 48.35      B
ATOM   2603  CG1 VAL B 156      36.912   9.164  82.832  1.00 39.48      B
ATOM   2604  CG2 VAL B 156      39.340   9.729  82.852  1.00 36.39      B
ATOM   2605  C   VAL B 156      36.274  11.873  82.071  1.00 46.81      B
ATOM   2606  O   VAL B 156      35.851  12.447  83.063  1.00 45.83      B
ATOM   2607  N   ARG B 157      35.511  11.627  81.018  1.00 44.69      B
ATOM   2608  CA  ARG B 157      34.129  12.067  80.965  1.00 47.92      B
ATOM   2609  CB  ARG B 157      33.646  12.097  79.521  1.00 45.93      B
ATOM   2610  CG  ARG B 157      34.117  13.304  78.761  1.00 54.69      B
ATOM   2611  CD  ARG B 157      33.383  14.510  79.244  1.00 48.45      B
ATOM   2612  NE  ARG B 157      32.021  14.523  78.738  1.00 54.25      B
ATOM   2613  CZ  ARG B 157      31.693  14.826  77.484  1.00 58.65      B
ATOM   2614  NH1 ARG B 157      32.631  15.143  76.592  1.00 61.25      B
ATOM   2615  NH2 ARG B 157      30.414  14.827  77.123  1.00 50.90      B
ATOM   2616  C   ARG B 157      33.172  11.230  81.771  1.00 56.30      B
ATOM   2617  O   ARG B 157      33.355  10.029  81.907  1.00 58.10      B
ATOM   2618  N   ASP B 158      32.142  11.884  82.297  1.00 57.03      B
ATOM   2619  CA  ASP B 158      31.108  11.215  83.074  1.00 65.29      B
ATOM   2620  CB  ASP B 158      30.783  11.996  84.352  1.00 62.44      B
ATOM   2621  CG  ASP B 158      32.022  12.435  85.107  1.00 69.47      B
ATOM   2622  OD1 ASP B 158      33.017  11.678  85.123  1.00 71.46      B
ATOM   2623  OD2 ASP B 158      31.994  13.536  85.701  1.00 71.37      B
ATOM   2624  C   ASP B 158      29.846  11.126  82.207  1.00 70.16      B
ATOM   2625  O   ASP B 158      29.475  12.092  81.518  1.00 67.23      B
ATOM   2626  N   ALA B 159      29.206   9.956  82.236  1.00 80.04      B
ATOM   2627  CA  ALA B 159      27.973   9.689  81.487  1.00 92.48      B
ATOM   2628  CB  ALA B 159      28.149   8.437  80.617  1.00 91.82      B
ATOM   2629  C   ALA B 159      26.834   9.482  82.501  1.00 97.27      B
ATOM   2630  O   ALA B 159      25.851  10.237  82.531  1.00 99.81      B
ATOM   2631  N   ALA B 160      26.987   8.449  83.329  1.00101.52      B
ATOM   2632  CA  ALA B 160      26.028   8.123  84.378  1.00104.11      B
ATOM   2633  CB  ALA B 160      24.881   7.295  83.812  1.00100.00      B
ATOM   2634  C   ALA B 160      26.774   7.329  85.443  1.00107.34      B
ATOM   2635  O   ALA B 160      27.216   7.944  86.440  1.00105.79      B
ATOM   2636  OXT ALA B 160      26.936   6.106  85.245  1.00108.40      B
ATOM   2637  CB  TRP C   1      65.880  29.265   9.836  1.00 27.82      C
ATOM   2638  CG  TRP C   1      66.130  27.815  10.006  1.00 30.40      C
ATOM   2639  CD2 TRP C   1      67.096  27.211  10.862  1.00 32.47      C
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Replaced by 2nd page

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ATOM   2640  CE2 TRP C   1      66.978  25.808  10.705  1.00 34.13      C
ATOM   2641  CE3 TRP C   1      68.050  27.714  11.747  1.00 34.95      C
ATOM   2642  CD1 TRP C   1      65.477  26.783   9.374  1.00 33.58      C
ATOM   2643  NE1 TRP C   1      65.982  25.575   9.793  1.00 28.67      C
ATOM   2644  CZ2 TRP C   1      67.779  24.915  11.398  1.00 30.89      C
ATOM   2645  CZ3 TRP C   1      68.838  26.832  12.429  1.00 31.80      C
ATOM   2646  CH2 TRP C   1      68.701  25.443  12.253  1.00 38.83      C
ATOM   2647  C   TRP C   1      64.011  29.041   8.247  1.00 33.20      C
ATOM   2648  O   TRP C   1      63.135  28.177   8.116  1.00 29.45      C
ATOM   2649  N   TRP C   1      63.598  28.788  10.645  1.00 32.52      C
ATOM   2650  CA  TRP C   1      64.399  29.540   9.629  1.00 32.52      C
ATOM   2651  N   THR C   2      64.676  29.568   7.222  1.00 25.69      C
ATOM   2652  CA  THR C   2      64.408  29.128   5.861  1.00 27.30      C
ATOM   2653  CB  THR C   2      63.678  30.233   5.054  1.00 30.82      C
ATOM   2654  OG1 THR C   2      64.317  31.495   5.254  1.00 31.13      C
ATOM   2655  CG2 THR C   2      62.252  30.354   5.527  1.00 20.01      C
ATOM   2656  C   THR C   2      65.692  28.666   5.160  1.00 30.42      C
ATOM   2657  O   THR C   2      66.736  29.321   5.236  1.00 35.87      C
ATOM   2658  N   TYR C   3      65.601  27.511   4.507  1.00 29.29      C
ATOM   2659  CA  TYR C   3      66.723  26.919   3.797  1.00 26.70      C
ATOM   2660  CB  TYR C   3      66.593  25.394   3.827  1.00 26.53      C
ATOM   2661  CG  TYR C   3      66.504  24.771   5.200  1.00 25.81      C
ATOM   2662  CD1 TYR C   3      67.550  24.880   6.093  1.00 29.07      C
ATOM   2663  CE1 TYR C   3      67.501  24.258   7.346  1.00 30.54      C
ATOM   2664  CD2 TYR C   3      65.387  24.023   5.589  1.00 21.94      C
ATOM   2665  CE2 TYR C   3      65.324  23.396   6.843  1.00 25.62      C
ATOM   2666  CZ  TYR C   3      66.394  23.521   7.711  1.00 30.37      C
ATOM   2667  OH  TYR C   3      66.400  22.914   8.943  1.00 33.82      C
ATOM   2668  C   TYR C   3      66.793  27.381   2.328  1.00 31.57      C
ATOM   2669  O   TYR C   3      65.763  27.604   1.697  1.00 24.84      C
ATOM   2670  N   HIS C   4      68.007  27.531   1.795  1.00 31.98      C
ATOM   2671  CA  HIS C   4      68.207  27.919   0.394  1.00 26.39      C
ATOM   2672  CB  HIS C   4      68.326  29.427   0.202  1.00 31.13      C
ATOM   2673  CG  HIS C   4      67.599  30.243   1.217  1.00 32.43      C
ATOM   2674  CD2 HIS C   4      68.033  31.232   2.031  1.00 31.25      C
ATOM   2675  ND1 HIS C   4      66.244  30.136   1.433  1.00 25.20      C
ATOM   2676  CE1 HIS C   4      65.873  31.029   2.332  1.00 31.41      C
ATOM   2677  NE2 HIS C   4      66.941  31.708   2.709  1.00 27.38      C
ATOM   2678  C   HIS C   4      69.513  27.318  -0.097  1.00 30.95      C
ATOM   2679  O   HIS C   4      70.379  26.972   0.705  1.00 31.11      C
ATOM   2680  N   TYR C   5      69.660  27.221  -1.418  1.00 32.09      C
ATOM   2681  CA  TYR C   5      70.871  26.658  -2.003  1.00 25.63      C
ATOM   2682  CB  TYR C   5      70.705  25.148  -2.245  1.00 28.92      C
ATOM   2683  CG  TYR C   5      69.767  24.730  -3.380  1.00 35.42      C
ATOM   2684  CD1 TYR C   5      68.399  24.558  -3.164  1.00 27.91      C
ATOM   2685  CE1 TYR C   5      67.556  24.131  -4.198  1.00 29.90      C
ATOM   2686  CD2 TYR C   5      70.263  24.466  -4.659  1.00 30.94      C
ATOM   2687  CE2 TYR C   5      69.428  24.044  -5.689  1.00 31.61      C
ATOM   2688  CZ  TYR C   5      68.081  23.881  -5.455  1.00 31.71      C
ATOM   2689  OH  TYR C   5      67.262  23.499  -6.484  1.00 33.99      C
ATOM   2690  C   TYR C   5      71.243  27.339  -3.307  1.00 29.45      C
ATOM   2691  O   TYR C   5      70.365  27.838  -4.008  1.00 29.40      C
ATOM   2692  N   SER C   6      72.545  27.356  -3.612  1.00 29.16      C
ATOM   2693  CA  SER C   6      73.069  27.964  -4.841  1.00 37.21      C
ATOM   2694  CB  SER C   6      74.480  28.542  -4.641  1.00 39.34      C
ATOM   2695  OG  SER C   6      75.477  27.538  -4.602  1.00 47.86      C
ATOM   2696  C   SER C   6      73.116  26.892  -5.895  1.00 38.33      C
ATOM   2697  O   SER C   6      73.378  25.735  -5.590  1.00 42.09      C
ATOM   2698  N   THR C   7      72.895  27.292  -7.138  1.00 37.60      C
ATOM   2699  CA  THR C   7      72.828  26.356  -8.246  1.00 43.59      C
ATOM   2700  CB  THR C   7      71.877  26.904  -9.335  1.00 40.81      C
ATOM   2701  OG1 THR C   7      72.514  27.981 -10.034  1.00 46.42      C
ATOM   2702  CG2 THR C   7      70.579  27.445  -8.701  1.00 37.91      C
ATOM   2703  C   THR C   7      74.133  25.956  -8.901  1.00 41.86      C
ATOM   2704  O   THR C   7      74.132  25.143  -9.813  1.00 43.96      C
ATOM   2705  N   LYS C   8      75.240  26.512  -8.434  1.00 43.50      C
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ATOM	2706	CA	LYS	C	8	76.559	26.223	-9.005	1.00	42.83	C
ATOM	2707	CB	LYS	C	8	77.135	27.476	-9.691	1.00	41.69	C
ATOM	2708	CG	LYS	C	8	76.587	27.806	-11.098	1.00	58.12	C
ATOM	2709	CD	LYS	C	8	77.323	29.033	-11.692	1.00	69.31	C
ATOM	2710	CE	LYS	C	8	76.945	29.359	-13.154	1.00	77.31	C
ATOM	2711	NZ	LYS	C	8	77.680	30.567	-13.694	1.00	78.29	C
ATOM	2712	C	LYS	C	8	77.538	25.793	-7.921	1.00	43.48	C
ATOM	2713	O	LYS	C	8	77.627	26.461	-6.892	1.00	49.96	C
ATOM	2714	N	ALA	C	9	78.292	24.715	-8.156	1.00	43.40	C
ATOM	2715	CA	ALA	C	9	79.274	24.205	-7.176	1.00	46.96	C
ATOM	2716	CB	ALA	C	9	79.825	22.864	-7.646	1.00	43.43	C
ATOM	2717	C	ALA	C	9	80.440	25.160	-6.877	1.00	49.75	C
ATOM	2718	O	ALA	C	9	81.030	25.740	-7.785	1.00	54.20	C
ATOM	2719	N	TYR	C	10	80.777	25.318	-5.605	1.00	47.67	C
ATOM	2720	CA	TYR	C	10	81.864	26.206	-5.243	1.00	47.40	C
ATOM	2721	CB	TYR	C	10	81.344	27.629	-5.020	1.00	51.73	C
ATOM	2722	CG	TYR	C	10	81.162	28.444	-6.288	1.00	56.80	C
ATOM	2723	CD1	TYR	C	10	82.177	28.515	-7.238	1.00	61.22	C
ATOM	2724	CE1	TYR	C	10	82.052	29.318	-8.384	1.00	66.69	C
ATOM	2725	CD2	TYR	C	10	79.998	29.198	-6.512	1.00	62.79	C
ATOM	2726	CE2	TYR	C	10	79.859	30.008	-7.652	1.00	63.33	C
ATOM	2727	CZ	TYR	C	10	80.895	30.064	-8.586	1.00	70.84	C
ATOM	2728	OH	TYR	C	10	80.804	30.865	-9.717	1.00	77.14	C
ATOM	2729	C	TYR	C	10	82.593	25.736	-3.997	1.00	51.88	C
ATOM	2730	O	TYR	C	10	82.202	24.754	-3.346	1.00	52.94	C
ATOM	2731	N	SER	C	11	83.664	26.451	-3.667	1.00	54.59	C
ATOM	2732	CA	SER	C	11	84.463	26.132	-2.490	1.00	48.44	C
ATOM	2733	CB	SER	C	11	85.821	26.847	-2.527	1.00	50.25	C
ATOM	2734	OG	SER	C	11	85.784	28.063	-1.779	1.00	52.83	C
ATOM	2735	C	SER	C	11	83.747	26.579	-1.235	1.00	46.48	C
ATOM	2736	O	SER	C	11	83.047	27.593	-1.225	1.00	41.86	C
ATOM	2737	N	TRP	C	12	83.947	25.820	-0.172	1.00	48.55	C
ATOM	2738	CA	TRP	C	12	83.358	26.141	1.112	1.00	50.75	C
ATOM	2739	CB	TRP	C	12	84.088	25.380	2.207	1.00	53.54	C
ATOM	2740	CG	TRP	C	12	83.338	25.331	3.447	1.00	56.78	C
ATOM	2741	CD2	TRP	C	12	83.413	26.263	4.518	1.00	56.24	C
ATOM	2742	CE2	TRP	C	12	82.483	25.854	5.493	1.00	56.01	C
ATOM	2743	CE3	TRP	C	12	84.173	27.410	4.749	1.00	56.58	C
ATOM	2744	CD1	TRP	C	12	82.395	24.413	3.795	1.00	50.31	C
ATOM	2745	NE1	TRP	C	12	81.873	24.718	5.031	1.00	51.50	C
ATOM	2746	CZ2	TRP	C	12	82.296	26.554	6.680	1.00	55.95	C
ATOM	2747	CZ3	TRP	C	12	83.984	28.106	5.932	1.00	57.19	C
ATOM	2748	CH2	TRP	C	12	83.052	27.674	6.880	1.00	59.49	C
ATOM	2749	C	TRP	C	12	83.490	27.646	1.358	1.00	57.78	C
ATOM	2750	O	TRP	C	12	82.495	28.325	1.605	1.00	63.97	C
ATOM	2751	N	ASN	C	13	84.722	28.154	1.265	1.00	60.04	C
ATOM	2752	CA	ASN	C	13	85.026	29.580	1.478	1.00	58.75	C
ATOM	2753	CB	ASN	C	13	86.495	29.878	1.106	1.00	58.68	C
ATOM	2754	CG	ASN	C	13	87.490	29.321	2.110	1.00	60.58	C
ATOM	2755	OD1	ASN	C	13	87.559	29.770	3.254	1.00	53.71	C
ATOM	2756	ND2	ASN	C	13	88.267	28.338	1.681	1.00	57.73	C
ATOM	2757	C	ASN	C	13	84.112	30.505	0.667	1.00	55.28	C
ATOM	2758	O	ASN	C	13	83.530	31.458	1.184	1.00	56.67	C
ATOM	2759	N	ILE	C	14	84.009	30.223	-0.618	1.00	55.31	C
ATOM	2760	CA	ILE	C	14	83.179	31.016	-1.491	1.00	53.24	C
ATOM	2761	CB	ILE	C	14	83.263	30.489	-2.914	1.00	52.21	C
ATOM	2762	CG2	ILE	C	14	82.280	31.256	-3.813	1.00	48.37	C
ATOM	2763	CG1	ILE	C	14	84.721	30.568	-3.386	1.00	52.96	C
ATOM	2764	CD1	ILE	C	14	85.051	29.696	-4.611	1.00	44.44	C
ATOM	2765	C	ILE	C	14	81.753	30.892	-1.022	1.00	54.55	C
ATOM	2766	O	ILE	C	14	81.092	31.878	-0.710	1.00	51.67	C
ATOM	2767	N	SER	C	15	81.288	29.655	-0.978	1.00	50.29	C
ATOM	2768	CA	SER	C	15	79.940	29.374	-0.554	1.00	51.84	C
ATOM	2769	CB	SER	C	15	79.775	27.878	-0.359	1.00	46.43	C
ATOM	2770	OG	SER	C	15	80.056	27.226	-1.574	1.00	45.47	C
ATOM	2771	C	SER	C	15	79.524	30.119	0.711	1.00	49.73	C

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ATOM	2772	O	SER	C	15	78.434	30.716	0.749	1.00	40.45	C
ATOM	2773	N	ARG	C	16	80.367	30.105	1.745	1.00	49.81	C
ATOM	2774	CA	ARG	C	16	79.966	30.793	2.963	1.00	54.90	C
ATOM	2775	CB	ARG	C	16	81.029	30.759	4.055	1.00	54.35	C
ATOM	2776	CG	ARG	C	16	80.499	31.325	5.369	1.00	60.00	C
ATOM	2777	CD	ARG	C	16	81.447	31.108	6.532	1.00	58.09	C
ATOM	2778	NE	ARG	C	16	80.897	31.614	7.791	1.00	53.70	C
ATOM	2779	CZ	ARG	C	16	81.623	31.808	8.890	1.00	50.93	C
ATOM	2780	NH1	ARG	C	16	82.927	31.535	8.882	1.00	46.65	C
ATOM	2781	NH2	ARG	C	16	81.058	32.292	9.990	1.00	52.77	C
ATOM	2782	C	ARG	C	16	79.682	32.213	2.589	1.00	50.37	C
ATOM	2783	O	ARG	C	16	78.634	32.752	2.922	1.00	57.16	C
ATOM	2784	N	ALA	C	17	80.605	32.825	1.872	1.00	45.35	C
ATOM	2785	CA	ALA	C	17	80.374	34.189	1.469	1.00	45.62	C
ATOM	2786	CB	ALA	C	17	81.487	34.665	0.540	1.00	46.27	C
ATOM	2787	C	ALA	C	17	79.014	34.233	0.766	1.00	38.02	C
ATOM	2788	O	ALA	C	17	78.191	35.103	1.044	1.00	43.65	C
ATOM	2789	N	TYR	C	18	78.753	33.269	-0.113	1.00	43.49	C
ATOM	2790	CA	TYR	C	18	77.486	33.251	-0.855	1.00	42.18	C
ATOM	2791	CB	TYR	C	18	77.450	32.068	-1.824	1.00	43.04	C
ATOM	2792	CG	TYR	C	18	76.129	31.900	-2.538	1.00	44.76	C
ATOM	2793	CD1	TYR	C	18	75.146	31.054	-2.028	1.00	44.70	C
ATOM	2794	CE1	TYR	C	18	73.937	30.896	-2.670	1.00	45.42	C
ATOM	2795	CD2	TYR	C	18	75.860	32.588	-3.717	1.00	43.78	C
ATOM	2796	CE2	TYR	C	18	74.653	32.433	-4.365	1.00	46.27	C
ATOM	2797	CZ	TYR	C	18	73.697	31.587	-3.836	1.00	48.53	C
ATOM	2798	OH	TYR	C	18	72.493	31.430	-4.469	1.00	39.54	C
ATOM	2799	C	TYR	C	18	76.251	33.237	0.025	1.00	39.50	C
ATOM	2800	O	TYR	C	18	75.333	34.036	-0.167	1.00	43.87	C
ATOM	2801	N	CYS	C	19	76.221	32.317	0.979	1.00	38.27	C
ATOM	2802	CA	CYS	C	19	75.095	32.257	1.889	1.00	41.88	C
ATOM	2803	C	CYS	C	19	74.998	33.577	2.623	1.00	46.56	C
ATOM	2804	O	CYS	C	19	73.942	34.202	2.656	1.00	46.06	C
ATOM	2805	CB	CYS	C	19	75.292	31.155	2.912	1.00	39.70	C
ATOM	2806	SG	CYS	C	19	75.124	29.482	2.244	1.00	42.43	C
ATOM	2807	N	GLN	C	20	76.131	33.987	3.194	1.00	48.26	C
ATOM	2808	CA	GLN	C	20	76.247	35.211	3.980	1.00	45.14	C
ATOM	2809	CB	GLN	C	20	77.690	35.402	4.462	1.00	48.63	C
ATOM	2810	CG	GLN	C	20	78.199	34.314	5.395	1.00	53.51	C
ATOM	2811	CD	GLN	C	20	79.542	34.653	6.033	1.00	55.70	C
ATOM	2812	OE1	GLN	C	20	80.382	35.327	5.425	1.00	55.43	C
ATOM	2813	NE2	GLN	C	20	79.757	34.171	7.258	1.00	52.89	C
ATOM	2814	C	GLN	C	20	75.773	36.510	3.336	1.00	43.23	C
ATOM	2815	O	GLN	C	20	75.188	37.353	4.021	1.00	47.57	C
ATOM	2816	N	ASN	C	21	76.002	36.690	2.041	1.00	44.05	C
ATOM	2817	CA	ASN	C	21	75.588	37.929	1.402	1.00	44.05	C
ATOM	2818	CB	ASN	C	21	76.503	38.223	0.218	1.00	52.93	C
ATOM	2819	CG	ASN	C	21	77.584	39.243	0.562	1.00	58.61	C
ATOM	2820	OD1	ASN	C	21	77.540	40.374	0.079	1.00	65.15	C
ATOM	2821	ND2	ASN	C	21	78.545	38.858	1.408	1.00	62.30	C
ATOM	2822	C	ASN	C	21	74.128	38.021	0.988	1.00	40.49	C
ATOM	2823	O	ASN	C	21	73.611	39.112	0.800	1.00	48.66	C
ATOM	2824	N	ARG	C	22	73.451	36.885	0.873	1.00	40.08	C
ATOM	2825	CA	ARG	C	22	72.036	36.883	0.480	1.00	41.20	C
ATOM	2826	CB	ARG	C	22	71.842	36.030	-0.778	1.00	45.18	C
ATOM	2827	CG	ARG	C	22	73.077	35.265	-1.209	1.00	44.57	C
ATOM	2828	CD	ARG	C	22	72.779	34.405	-2.421	1.00	45.04	C
ATOM	2829	NE	ARG	C	22	72.575	35.171	-3.652	1.00	48.10	C
ATOM	2830	CZ	ARG	C	22	73.561	35.620	-4.422	1.00	57.29	C
ATOM	2831	NH1	ARG	C	22	74.823	35.375	-4.080	1.00	57.67	C
ATOM	2832	NH2	ARG	C	22	73.287	36.299	-5.534	1.00	60.75	C
ATOM	2833	C	ARG	C	22	71.075	36.395	1.569	1.00	39.01	C
ATOM	2834	O	ARG	C	22	69.869	36.660	1.516	1.00	37.86	C
ATOM	2835	N	TYR	C	23	71.618	35.686	2.553	1.00	39.64	C
ATOM	2836	CA	TYR	C	23	70.819	35.142	3.634	1.00	37.25	C
ATOM	2837	CB	TYR	C	23	70.605	33.654	3.393	1.00	32.81	C

ATOM	2838	CG	TYR	C	23	70.319	33.334	1.949	1.00	37.08	C
ATOM	2839	CD1	TYR	C	23	69.272	33.961	1.274	1.00	30.85	C
ATOM	2840	CE1	TYR	C	23	68.998	33.676	-0.066	1.00	20.39	C
ATOM	2841	CD2	TYR	C	23	71.090	32.413	1.253	1.00	30.57	C
ATOM	2842	CE2	TYR	C	23	70.827	32.122	-0.088	1.00	19.59	C
ATOM	2843	CZ	TYR	C	23	69.775	32.756	-0.744	1.00	25.66	C
ATOM	2844	OH	TYR	C	23	69.478	32.462	-2.062	1.00	30.46	C
ATOM	2845	C	TYR	C	23	71.521	35.354	4.968	1.00	38.38	C
ATOM	2846	O	TYR	C	23	71.903	36.489	5.293	1.00	38.94	C
ATOM	2847	N	THR	C	24	71.680	34.260	5.729	1.00	39.61	C
ATOM	2848	CA	THR	C	24	72.336	34.288	7.038	1.00	35.79	C
ATOM	2849	CB	THR	C	24	71.421	33.762	8.150	1.00	33.50	C
ATOM	2850	OG1	THR	C	24	70.495	34.782	8.524	1.00	26.56	C
ATOM	2851	CG2	THR	C	24	72.215	33.423	9.369	1.00	32.73	C
ATOM	2852	C	THR	C	24	73.658	33.542	7.121	1.00	42.03	C
ATOM	2853	O	THR	C	24	74.598	34.038	7.731	1.00	46.87	C
ATOM	2854	N	ASP	C	25	73.741	32.360	6.525	1.00	38.63	C
ATOM	2855	CA	ASP	C	25	74.977	31.587	6.559	1.00	45.86	C
ATOM	2856	CB	ASP	C	25	75.523	31.505	7.992	1.00	51.81	C
ATOM	2857	CG	ASP	C	25	76.984	31.960	8.111	1.00	58.54	C
ATOM	2858	OD1	ASP	C	25	77.876	31.340	7.490	1.00	60.94	C
ATOM	2859	OD2	ASP	C	25	77.242	32.940	8.844	1.00	66.00	C
ATOM	2860	C	ASP	C	25	74.688	30.187	6.071	1.00	46.44	C
ATOM	2861	O	ASP	C	25	73.567	29.872	5.674	1.00	44.99	C
ATOM	2862	N	LEU	C	26	75.712	29.348	6.111	1.00	43.73	C
ATOM	2863	CA	LEU	C	26	75.598	27.953	5.710	1.00	45.47	C
ATOM	2864	CB	LEU	C	26	76.993	27.348	5.647	1.00	43.15	C
ATOM	2865	CG	LEU	C	26	77.882	27.828	4.509	1.00	45.90	C
ATOM	2866	CD1	LEU	C	26	79.302	27.279	4.675	1.00	44.07	C
ATOM	2867	CD2	LEU	C	26	77.266	27.370	3.191	1.00	47.12	C
ATOM	2868	C	LEU	C	26	74.737	27.157	6.707	1.00	44.70	C
ATOM	2869	O	LEU	C	26	75.008	27.176	7.911	1.00	45.93	C
ATOM	2870	N	VAL	C	27	73.719	26.450	6.213	1.00	42.45	C
ATOM	2871	CA	VAL	C	27	72.828	25.662	7.076	1.00	40.65	C
ATOM	2872	CB	VAL	C	27	72.197	24.453	6.372	1.00	42.67	C
ATOM	2873	CG1	VAL	C	27	71.025	24.874	5.545	1.00	49.31	C
ATOM	2874	CG2	VAL	C	27	73.241	23.750	5.530	1.00	44.95	C
ATOM	2875	C	VAL	C	27	73.507	25.050	8.262	1.00	34.42	C
ATOM	2876	O	VAL	C	27	74.681	24.703	8.213	1.00	38.42	C
ATOM	2877	N	ALA	C	28	72.755	24.905	9.337	1.00	32.33	C
ATOM	2878	CA	ALA	C	28	73.274	24.248	10.523	1.00	32.62	C
ATOM	2879	CB	ALA	C	28	73.505	25.245	11.634	1.00	31.59	C
ATOM	2880	C	ALA	C	28	72.126	23.317	10.857	1.00	38.05	C
ATOM	2881	O	ALA	C	28	70.970	23.736	10.806	1.00	34.81	C
ATOM	2882	N	ILE	C	29	72.410	22.053	11.149	1.00	40.74	C
ATOM	2883	CA	ILE	C	29	71.327	21.130	11.470	1.00	39.05	C
ATOM	2884	CB	ILE	C	29	71.580	19.790	10.808	1.00	42.66	C
ATOM	2885	CG2	ILE	C	29	70.476	18.805	11.190	1.00	28.18	C
ATOM	2886	CG1	ILE	C	29	71.689	20.028	9.296	1.00	28.68	C
ATOM	2887	CD1	ILE	C	29	72.021	18.803	8.451	1.00	33.09	C
ATOM	2888	C	ILE	C	29	71.071	20.969	12.980	1.00	42.35	C
ATOM	2889	O	ILE	C	29	72.000	20.952	13.793	1.00	47.43	C
ATOM	2890	N	GLN	C	30	69.802	20.865	13.354	1.00	37.87	C
ATOM	2891	CA	GLN	C	30	69.453	20.757	14.761	1.00	32.89	C
ATOM	2892	CB	GLN	C	30	68.346	21.743	15.095	1.00	33.69	C
ATOM	2893	CG	GLN	C	30	68.588	23.160	14.687	1.00	24.17	C
ATOM	2894	CD	GLN	C	30	67.597	24.096	15.362	1.00	33.66	C
ATOM	2895	OE1	GLN	C	30	67.918	24.735	16.361	1.00	32.01	C
ATOM	2896	NE2	GLN	C	30	66.380	24.159	14.832	1.00	30.14	C
ATOM	2897	C	GLN	C	30	68.996	19.376	15.212	1.00	35.39	C
ATOM	2898	O	GLN	C	30	69.089	19.027	16.390	1.00	38.55	C
ATOM	2899	N	ASN	C	31	68.483	18.594	14.282	1.00	38.92	C
ATOM	2900	CA	ASN	C	31	67.998	17.278	14.624	1.00	35.51	C
ATOM	2901	CB	ASN	C	31	66.691	17.403	15.380	1.00	34.79	C
ATOM	2902	CG	ASN	C	31	65.689	18.269	14.652	1.00	41.00	C
ATOM	2903	OD1	ASN	C	31	65.356	18.010	13.485	1.00	44.98	C

ATOM 2904 ND2 ASN C 31 65.194 19.309 15.336 1.00 33.85 C
ATOM 2905 C ASN C 31 67.783 16.543 13.333 1.00 33.05 C
ATOM 2906 O ASN C 31 67.866 17.137 12.262 1.00 31.76 C
ATOM 2907 N LYS C 32 67.490 15.256 13.419 1.00 32.21 C
ATOM 2908 CA LYS C 32 67.321 14.477 12.203 1.00 31.05 C
ATOM 2909 CB LYS C 32 67.069 13.012 12.574 1.00 37.28 C
ATOM 2910 CG LYS C 32 68.228 12.361 13.337 1.00 32.49 C
ATOM 2911 CD LYS C 32 69.487 12.311 12.483 1.00 36.33 C
ATOM 2912 CE LYS C 32 70.522 11.328 13.018 1.00 44.01 C
ATOM 2913 NZ LYS C 32 71.012 11.700 14.365 1.00 40.00 C
ATOM 2914 C LYS C 32 66.246 14.995 11.233 1.00 33.31 C
ATOM 2915 O LYS C 32 66.476 15.046 10.015 1.00 31.42 C
ATOM 2916 N ASN C 33 65.095 15.395 11.776 1.00 26.32 C
ATOM 2917 CA ASN C 33 63.982 15.881 10.964 1.00 31.29 C
ATOM 2918 CB ASN C 33 62.996 16.670 11.807 1.00 21.29 C
ATOM 2919 CG ASN C 33 62.437 15.867 12.973 1.00 27.56 C
ATOM 2920 OD1 ASN C 33 62.109 14.672 12.840 1.00 28.06 C
ATOM 2921 ND2 ASN C 33 62.294 16.533 14.127 1.00 23.19 C
ATOM 2922 C ASN C 33 64.438 16.774 9.844 1.00 29.50 C
ATOM 2923 O ASN C 33 64.083 16.578 8.692 1.00 25.17 C
ATOM 2924 N GLU C 34 65.211 17.782 10.206 1.00 30.04 C
ATOM 2925 CA GLU C 34 65.741 18.730 9.247 1.00 29.46 C
ATOM 2926 CB GLU C 34 66.547 19.781 9.999 1.00 23.91 C
ATOM 2927 CG GLU C 34 66.193 19.810 11.477 1.00 30.55 C
ATOM 2928 CD GLU C 34 66.315 21.178 12.080 1.00 36.31 C
ATOM 2929 OE1 GLU C 34 67.276 21.890 11.716 1.00 29.44 C
ATOM 2930 OE2 GLU C 34 65.458 21.537 12.919 1.00 36.31 C
ATOM 2931 C GLU C 34 66.611 17.965 8.258 1.00 29.70 C
ATOM 2932 O GLU C 34 66.591 18.216 7.055 1.00 29.57 C
ATOM 2933 N ILE C 35 67.381 17.014 8.751 1.00 30.28 C
ATOM 2934 CA ILE C 35 68.176 16.281 7.812 1.00 32.35 C
ATOM 2935 CB ILE C 35 69.040 15.229 8.497 1.00 27.74 C
ATOM 2936 CG2 ILE C 35 69.065 13.962 7.671 1.00 27.05 C
ATOM 2937 CG1 ILE C 35 70.449 15.800 8.696 1.00 31.69 C
ATOM 2938 CD1 ILE C 35 71.549 14.779 8.744 1.00 31.79 C
ATOM 2939 C ILE C 35 67.208 15.650 6.829 1.00 30.45 C
ATOM 2940 O ILE C 35 67.364 15.772 5.625 1.00 22.69 C
ATOM 2941 N ASP C 36 66.180 15.006 7.354 1.00 30.70 C
ATOM 2942 CA ASP C 36 65.174 14.372 6.505 1.00 30.23 C
ATOM 2943 CB ASP C 36 64.057 13.765 7.366 1.00 33.37 C
ATOM 2944 CG ASP C 36 63.033 13.004 6.549 1.00 36.09 C
ATOM 2945 OD1 ASP C 36 62.219 13.629 5.838 1.00 41.77 C
ATOM 2946 OD2 ASP C 36 63.043 11.765 6.617 1.00 35.76 C
ATOM 2947 C ASP C 36 64.574 15.378 5.515 1.00 28.74 C
ATOM 2948 O ASP C 36 64.569 15.139 4.298 1.00 20.83 C
ATOM 2949 N TYR C 37 64.063 16.496 6.033 1.00 24.09 C
ATOM 2950 CA TYR C 37 63.465 17.526 5.182 1.00 27.99 C
ATOM 2951 CB TYR C 37 63.061 18.744 6.021 1.00 22.64 C
ATOM 2952 CG TYR C 37 62.217 19.749 5.287 1.00 23.38 C
ATOM 2953 CD1 TYR C 37 60.849 19.623 5.261 1.00 26.15 C
ATOM 2954 CE1 TYR C 37 60.059 20.505 4.556 1.00 26.48 C
ATOM 2955 CD2 TYR C 37 62.788 20.797 4.585 1.00 21.09 C
ATOM 2956 CE2 TYR C 37 62.004 21.693 3.867 1.00 22.41 C
ATOM 2957 CZ TYR C 37 60.633 21.533 3.858 1.00 26.99 C
ATOM 2958 OH TYR C 37 59.808 22.362 3.141 1.00 26.51 C
ATOM 2959 C TYR C 37 64.489 17.961 4.125 1.00 27.44 C
ATOM 2960 O TYR C 37 64.273 17.831 2.904 1.00 27.40 C
ATOM 2961 N LEU C 38 65.615 18.470 4.612 1.00 24.60 C
ATOM 2962 CA LEU C 38 66.642 18.934 3.733 1.00 22.95 C
ATOM 2963 CB LEU C 38 67.921 19.161 4.506 1.00 26.63 C
ATOM 2964 CG LEU C 38 67.955 20.413 5.378 1.00 30.18 C
ATOM 2965 CD1 LEU C 38 69.422 20.725 5.619 1.00 25.99 C
ATOM 2966 CD2 LEU C 38 67.288 21.608 4.707 1.00 21.94 C
ATOM 2967 C LEU C 38 66.850 17.930 2.642 1.00 29.03 C
ATOM 2968 O LEU C 38 66.718 18.256 1.478 1.00 27.01 C
ATOM 2969 N ASN C 39 67.136 16.696 3.019 1.00 23.82 C

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ATOM	2970	CA	ASN	C	39	67.365	15.647	2.037	1.00	29.22	C
ATOM	2971	CB	ASN	C	39	67.650	14.314	2.735	1.00	25.64	C
ATOM	2972	CG	ASN	C	39	68.036	13.211	1.758	1.00	30.71	C
ATOM	2973	OD1	ASN	C	39	69.151	13.192	1.252	1.00	22.61	C
ATOM	2974	ND2	ASN	C	39	67.110	12.298	1.483	1.00	26.15	C
ATOM	2975	C	ASN	C	39	66.206	15.441	1.064	1.00	29.51	C
ATOM	2976	O	ASN	C	39	66.419	15.006	-0.071	1.00	28.27	C
ATOM	2977	N	LYS	C	40	64.988	15.761	1.487	1.00	27.72	C
ATOM	2978	CA	LYS	C	40	63.840	15.533	0.620	1.00	34.49	C
ATOM	2979	CB	LYS	C	40	62.667	15.002	1.440	1.00	34.92	C
ATOM	2980	CG	LYS	C	40	62.029	15.975	2.401	1.00	39.00	C
ATOM	2981	CD	LYS	C	40	61.316	15.195	3.504	1.00	47.23	C
ATOM	2982	CE	LYS	C	40	60.358	14.141	2.949	1.00	43.17	C
ATOM	2983	NZ	LYS	C	40	59.860	13.227	4.017	1.00	33.14	C
ATOM	2984	C	LYS	C	40	63.355	16.664	-0.261	1.00	29.12	C
ATOM	2985	O	LYS	C	40	62.590	16.430	-1.198	1.00	28.92	C
ATOM	2986	N	VAL	C	41	63.776	17.885	0.036	1.00	32.91	C
ATOM	2987	CA	VAL	C	41	63.360	19.018	-0.777	1.00	27.33	C
ATOM	2988	CB	VAL	C	41	62.952	20.238	0.110	1.00	27.01	C
ATOM	2989	CG1	VAL	C	41	61.853	19.828	1.055	1.00	24.97	C
ATOM	2990	CG2	VAL	C	41	64.125	20.744	0.899	1.00	16.10	C
ATOM	2991	C	VAL	C	41	64.448	19.416	-1.781	1.00	29.96	C
ATOM	2992	O	VAL	C	41	64.154	19.617	-2.957	1.00	30.04	C
ATOM	2993	N	LEU	C	42	65.699	19.502	-1.321	1.00	24.15	C
ATOM	2994	CA	LEU	C	42	66.815	19.884	-2.185	1.00	29.35	C
ATOM	2995	CB	LEU	C	42	68.109	19.981	-1.399	1.00	27.81	C
ATOM	2996	CG	LEU	C	42	67.998	20.745	-0.078	1.00	35.84	C
ATOM	2997	CD1	LEU	C	42	69.400	20.843	0.521	1.00	34.51	C
ATOM	2998	CD2	LEU	C	42	67.374	22.146	-0.273	1.00	34.13	C
ATOM	2999	C	LEU	C	42	66.938	18.827	-3.239	1.00	28.35	C
ATOM	3000	O	LEU	C	42	66.795	17.652	-2.958	1.00	35.59	C
ATOM	3001	N	PRO	C	43	67.198	19.229	-4.475	1.00	31.02	C
ATOM	3002	CD	PRO	C	43	67.423	20.623	-4.880	1.00	31.97	C
ATOM	3003	CA	PRO	C	43	67.334	18.318	-5.609	1.00	31.37	C
ATOM	3004	CB	PRO	C	43	67.228	19.258	-6.783	1.00	31.11	C
ATOM	3005	CG	PRO	C	43	67.963	20.464	-6.260	1.00	31.02	C
ATOM	3006	C	PRO	C	43	68.652	17.580	-5.578	1.00	31.97	C
ATOM	3007	O	PRO	C	43	69.481	17.874	-4.722	1.00	30.78	C
ATOM	3008	N	TYR	C	44	68.857	16.648	-6.516	1.00	27.41	C
ATOM	3009	CA	TYR	C	44	70.101	15.865	-6.579	1.00	32.90	C
ATOM	3010	CB	TYR	C	44	69.854	14.474	-7.149	1.00	35.08	C
ATOM	3011	CG	TYR	C	44	71.129	13.664	-7.133	1.00	38.91	C
ATOM	3012	CD1	TYR	C	44	71.556	13.022	-5.977	1.00	39.18	C
ATOM	3013	CE1	TYR	C	44	72.798	12.399	-5.917	1.00	39.70	C
ATOM	3014	CD2	TYR	C	44	71.975	13.649	-8.227	1.00	43.81	C
ATOM	3015	CE2	TYR	C	44	73.220	13.027	-8.173	1.00	43.51	C
ATOM	3016	CZ	TYR	C	44	73.621	12.410	-7.019	1.00	45.63	C
ATOM	3017	OH	TYR	C	44	74.855	11.820	-6.968	1.00	50.73	C
ATOM	3018	C	TYR	C	44	71.297	16.426	-7.353	1.00	31.45	C
ATOM	3019	O	TYR	C	44	71.161	16.856	-8.499	1.00	36.59	C
ATOM	3020	N	TYR	C	45	72.473	16.374	-6.724	1.00	26.08	C
ATOM	3021	CA	TYR	C	45	73.737	16.819	-7.334	1.00	31.14	C
ATOM	3022	CB	TYR	C	45	74.183	18.186	-6.812	1.00	32.71	C
ATOM	3023	CG	TYR	C	45	73.439	19.373	-7.368	1.00	33.02	C
ATOM	3024	CD1	TYR	C	45	73.003	19.393	-8.681	1.00	38.20	C
ATOM	3025	CE1	TYR	C	45	72.371	20.513	-9.214	1.00	35.97	C
ATOM	3026	CD2	TYR	C	45	73.223	20.499	-6.598	1.00	26.36	C
ATOM	3027	CE2	TYR	C	45	72.597	21.617	-7.117	1.00	34.35	C
ATOM	3028	CZ	TYR	C	45	72.173	21.619	-8.422	1.00	35.37	C
ATOM	3029	OH	TYR	C	45	71.534	22.720	-8.939	1.00	31.88	C
ATOM	3030	C	TYR	C	45	74.810	15.799	-6.963	1.00	34.24	C
ATOM	3031	O	TYR	C	45	75.103	15.614	-5.784	1.00	29.78	C
ATOM	3032	N	SER	C	46	75.398	15.150	-7.965	1.00	39.66	C
ATOM	3033	CA	SER	C	46	76.424	14.125	-7.743	1.00	39.17	C
ATOM	3034	CB	SER	C	46	77.051	13.706	-9.078	1.00	35.14	C
ATOM	3035	OG	SER	C	46	77.903	14.726	-9.593	1.00	40.72	C

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ATOM	3036	C	SER	C	46	77.538	14.566	-6.802	1.00	33.38	C
ATOM	3037	O	SER	C	46	78.262	13.732	-6.254	1.00	41.39	C
ATOM	3038	N	SER	C	47	77.668	15.880	-6.635	1.00	37.77	C
ATOM	3039	CA	SER	C	47	78.702	16.461	-5.790	1.00	34.60	C
ATOM	3040	CB	SER	C	47	79.420	17.603	-6.526	1.00	43.88	C
ATOM	3041	OG	SER	C	47	78.516	18.585	-6.997	1.00	48.56	C
ATOM	3042	C	SER	C	47	78.175	16.950	-4.455	1.00	40.25	C
ATOM	3043	O	SER	C	47	78.943	17.377	-3.598	1.00	41.82	C
ATOM	3044	N	TYR	C	48	76.863	16.914	-4.287	1.00	41.31	C
ATOM	3045	CA	TYR	C	48	76.247	17.292	-3.020	1.00	41.82	C
ATOM	3046	CB	TYR	C	48	76.691	16.286	-1.965	1.00	36.79	C
ATOM	3047	CG	TYR	C	48	76.617	14.860	-2.461	1.00	44.10	C
ATOM	3048	CD1	TYR	C	48	75.434	14.336	-2.964	1.00	42.61	C
ATOM	3049	CE1	TYR	C	48	75.359	13.022	-3.426	1.00	32.00	C
ATOM	3050	CD2	TYR	C	48	77.725	14.043	-2.431	1.00	35.69	C
ATOM	3051	CE2	TYR	C	48	77.663	12.733	-2.890	1.00	34.39	C
ATOM	3052	CZ	TYR	C	48	76.477	12.222	-3.386	1.00	36.36	C
ATOM	3053	OH	TYR	C	48	76.417	10.914	-3.823	1.00	39.02	C
ATOM	3054	C	TYR	C	48	76.428	18.726	-2.502	1.00	43.07	C
ATOM	3055	O	TYR	C	48	76.996	19.578	-3.180	1.00	42.41	C
ATOM	3056	N	TYR	C	49	75.951	18.977	-1.284	1.00	39.25	C
ATOM	3057	CA	TYR	C	49	75.982	20.318	-0.709	1.00	40.14	C
ATOM	3058	CB	TYR	C	49	74.553	20.748	-0.313	1.00	31.41	C
ATOM	3059	CG	TYR	C	49	73.484	20.611	-1.407	1.00	38.16	C
ATOM	3060	CD1	TYR	C	49	73.329	19.423	-2.119	1.00	23.62	C
ATOM	3061	CE1	TYR	C	49	72.323	19.267	-3.057	1.00	29.89	C
ATOM	3062	CD2	TYR	C	49	72.591	21.647	-1.678	1.00	31.28	C
ATOM	3063	CE2	TYR	C	49	71.577	21.498	-2.616	1.00	34.61	C
ATOM	3064	CZ	TYR	C	49	71.448	20.302	-3.302	1.00	34.62	C
ATOM	3065	OH	TYR	C	49	70.434	20.119	-4.221	1.00	35.67	C
ATOM	3066	C	TYR	C	49	76.911	20.502	0.482	1.00	41.13	C
ATOM	3067	O	TYR	C	49	77.224	19.556	1.197	1.00	46.18	C
ATOM	3068	N	TRP	C	50	77.333	21.748	0.680	1.00	43.87	C
ATOM	3069	CA	TRP	C	50	78.243	22.146	1.749	1.00	48.24	C
ATOM	3070	CB	TRP	C	50	79.027	23.409	1.350	1.00	50.87	C
ATOM	3071	CG	TRP	C	50	80.403	23.235	0.732	1.00	53.15	C
ATOM	3072	CD2	TRP	C	50	81.310	22.158	0.940	1.00	52.84	C
ATOM	3073	CE2	TRP	C	50	82.470	22.435	0.184	1.00	53.76	C
ATOM	3074	CE3	TRP	C	50	81.257	20.980	1.689	1.00	55.88	C
ATOM	3075	CD1	TRP	C	50	81.039	24.107	-0.123	1.00	49.73	C
ATOM	3076	NE1	TRP	C	50	82.278	23.632	-0.457	1.00	51.04	C
ATOM	3077	CZ2	TRP	C	50	83.565	21.575	0.160	1.00	52.73	C
ATOM	3078	CZ3	TRP	C	50	82.340	20.127	1.663	1.00	55.43	C
ATOM	3079	CH2	TRP	C	50	83.483	20.427	0.903	1.00	53.90	C
ATOM	3080	C	TRP	C	50	77.457	22.501	2.983	1.00	43.54	C
ATOM	3081	O	TRP	C	50	76.775	23.517	2.990	1.00	42.04	C
ATOM	3082	N	ILE	C	51	77.531	21.702	4.036	1.00	42.14	C
ATOM	3083	CA	ILE	C	51	76.808	22.108	5.220	1.00	45.11	C
ATOM	3084	CB	ILE	C	51	76.240	20.891	6.011	1.00	44.87	C
ATOM	3085	CG2	ILE	C	51	75.891	19.791	5.052	1.00	42.38	C
ATOM	3086	CG1	ILE	C	51	77.234	20.357	7.026	1.00	40.26	C
ATOM	3087	CD1	ILE	C	51	76.609	19.333	7.942	1.00	40.84	C
ATOM	3088	C	ILE	C	51	77.746	22.978	6.058	1.00	46.93	C
ATOM	3089	O	ILE	C	51	78.957	22.770	6.086	1.00	52.76	C
ATOM	3090	N	GLY	C	52	77.172	23.980	6.709	1.00	47.92	C
ATOM	3091	CA	GLY	C	52	77.946	24.906	7.511	1.00	44.24	C
ATOM	3092	C	GLY	C	52	78.290	24.468	8.914	1.00	42.43	C
ATOM	3093	O	GLY	C	52	77.695	24.933	9.882	1.00	46.95	C
ATOM	3094	N	ILE	C	53	79.269	23.572	9.000	1.00	43.55	C
ATOM	3095	CA	ILE	C	53	79.792	23.021	10.249	1.00	45.98	C
ATOM	3096	CB	ILE	C	53	79.283	21.576	10.526	1.00	44.70	C
ATOM	3097	CG2	ILE	C	53	79.656	20.627	9.373	1.00	36.87	C
ATOM	3098	CG1	ILE	C	53	79.915	21.057	11.817	1.00	41.38	C
ATOM	3099	CD1	ILE	C	53	79.454	19.687	12.210	1.00	32.64	C
ATOM	3100	C	ILE	C	53	81.301	22.934	10.099	1.00	52.50	C
ATOM	3101	O	ILE	C	53	81.798	22.389	9.109	1.00	50.90	C

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ATOM	3102	N	ARG	C	54	82.039	23.475	11.061	1.00	53.14	C
ATOM	3103	CA	ARG	C	54	83.495	23.403	10.993	1.00	57.74	C
ATOM	3104	CB	ARG	C	54	84.133	24.800	10.807	1.00	51.25	C
ATOM	3105	CG	ARG	C	54	84.103	25.346	9.367	1.00	54.85	C
ATOM	3106	CD	ARG	C	54	84.668	24.341	8.338	1.00	53.78	C
ATOM	3107	NE	ARG	C	54	86.135	24.292	8.252	1.00	62.30	C
ATOM	3108	CZ	ARG	C	54	86.874	25.017	7.404	1.00	62.56	C
ATOM	3109	NH1	ARG	C	54	86.296	25.862	6.554	1.00	63.68	C
ATOM	3110	NH2	ARG	C	54	88.201	24.898	7.395	1.00	64.27	C
ATOM	3111	C	ARG	C	54	84.046	22.740	12.245	1.00	60.00	C
ATOM	3112	O	ARG	C	54	83.295	22.385	13.164	1.00	60.55	C
ATOM	3113	N	LYS	C	55	85.367	22.576	12.259	1.00	67.04	C
ATOM	3114	CA	LYS	C	55	86.070	21.955	13.370	1.00	67.47	C
ATOM	3115	CB	LYS	C	55	86.735	20.662	12.906	1.00	64.80	C
ATOM	3116	CG	LYS	C	55	87.529	19.943	13.983	1.00	71.42	C
ATOM	3117	CD	LYS	C	55	88.061	18.608	13.475	1.00	76.73	C
ATOM	3118	CE	LYS	C	55	88.747	17.826	14.578	1.00	78.31	C
ATOM	3119	NZ	LYS	C	55	89.108	16.469	14.093	1.00	78.39	C
ATOM	3120	C	LYS	C	55	87.129	22.873	13.943	1.00	70.13	C
ATOM	3121	O	LYS	C	55	88.066	23.260	13.245	1.00	66.50	C
ATOM	3122	N	ASN	C	56	86.957	23.236	15.211	1.00	76.49	C
ATOM	3123	CA	ASN	C	56	87.926	24.076	15.910	1.00	81.42	C
ATOM	3124	CB	ASN	C	56	87.262	25.308	16.573	1.00	85.09	C
ATOM	3125	CG	ASN	C	56	86.160	24.945	17.567	1.00	89.95	C
ATOM	3126	OD1	ASN	C	56	85.777	25.762	18.408	1.00	89.53	C
ATOM	3127	ND2	ASN	C	56	85.636	23.732	17.462	1.00	91.43	C
ATOM	3128	C	ASN	C	56	88.577	23.181	16.962	1.00	81.12	C
ATOM	3129	O	ASN	C	56	88.426	23.389	18.172	1.00	82.82	C
ATOM	3130	N	ALA	C	57	89.285	22.167	16.467	1.00	79.29	C
ATOM	3131	CA	ALA	C	57	89.976	21.193	17.300	1.00	80.10	C
ATOM	3132	CB	ALA	C	57	90.924	21.904	18.265	1.00	80.86	C
ATOM	3133	C	ALA	C	57	89.038	20.256	18.073	1.00	79.54	C
ATOM	3134	O	ALA	C	57	88.270	20.679	18.947	1.00	77.42	C
ATOM	3135	N	LYS	C	58	89.122	18.977	17.715	1.00	78.34	C
ATOM	3136	CA	LYS	C	58	88.353	17.890	18.321	1.00	78.14	C
ATOM	3137	CB	LYS	C	58	88.981	17.524	19.673	1.00	78.89	C
ATOM	3138	CG	LYS	C	58	90.363	16.873	19.529	1.00	82.32	C
ATOM	3139	CD	LYS	C	58	91.472	17.725	20.131	1.00	84.05	C
ATOM	3140	CE	LYS	C	58	91.469	17.649	21.656	1.00	85.71	C
ATOM	3141	NZ	LYS	C	58	90.161	18.039	22.268	1.00	83.82	C
ATOM	3142	C	LYS	C	58	86.829	18.025	18.462	1.00	76.27	C
ATOM	3143	O	LYS	C	58	86.108	17.046	18.237	1.00	75.93	C
ATOM	3144	N	THR	C	59	86.339	19.208	18.831	1.00	73.01	C
ATOM	3145	CA	THR	C	59	84.896	19.420	18.983	1.00	69.46	C
ATOM	3146	CB	THR	C	59	84.564	20.034	20.393	1.00	71.37	C
ATOM	3147	OG1	THR	C	59	84.264	18.976	21.319	1.00	72.24	C
ATOM	3148	CG2	THR	C	59	83.379	20.997	20.321	1.00	71.18	C
ATOM	3149	C	THR	C	59	84.336	20.304	17.858	1.00	65.78	C
ATOM	3150	O	THR	C	59	84.690	21.476	17.741	1.00	60.91	C
ATOM	3151	N	TRP	C	60	83.463	19.732	17.032	1.00	61.03	C
ATOM	3152	CA	TRP	C	60	82.874	20.459	15.912	1.00	55.08	C
ATOM	3153	CB	TRP	C	60	82.037	19.521	15.055	1.00	51.19	C
ATOM	3154	CG	TRP	C	60	82.796	18.449	14.347	1.00	46.31	C
ATOM	3155	CD2	TRP	C	60	83.347	18.529	13.030	1.00	39.69	C
ATOM	3156	CE2	TRP	C	60	83.912	17.274	12.735	1.00	47.62	C
ATOM	3157	CE3	TRP	C	60	83.411	19.545	12.067	1.00	44.10	C
ATOM	3158	CD1	TRP	C	60	83.048	17.183	14.791	1.00	48.39	C
ATOM	3159	NE1	TRP	C	60	83.717	16.467	13.824	1.00	48.08	C
ATOM	3160	CZ2	TRP	C	60	84.531	17.006	11.524	1.00	48.16	C
ATOM	3161	CZ3	TRP	C	60	84.023	19.280	10.868	1.00	37.77	C
ATOM	3162	CH2	TRP	C	60	84.576	18.020	10.603	1.00	46.23	C
ATOM	3163	C	TRP	C	60	81.988	21.619	16.347	1.00	55.73	C
ATOM	3164	O	TRP	C	60	81.693	21.776	17.533	1.00	60.09	C
ATOM	3165	N	THR	C	61	81.551	22.422	15.378	1.00	54.91	C
ATOM	3166	CA	THR	C	61	80.679	23.562	15.663	1.00	56.08	C
ATOM	3167	CB	THR	C	61	81.471	24.715	16.365	1.00	58.03	C

ATOM	3168	OG1	THR	C	61	81.745	24.356	17.728	1.00	58.95	C
ATOM	3169	CG2	THR	C	61	80.672	25.999	16.370	1.00	53.76	C
ATOM	3170	C	THR	C	61	79.973	24.099	14.407	1.00	59.01	C
ATOM	3171	O	THR	C	61	80.574	24.189	13.335	1.00	61.26	C
ATOM	3172	N	TRP	C	62	78.689	24.435	14.552	1.00	55.11	C
ATOM	3173	CA	TRP	C	62	77.888	24.966	13.453	1.00	52.23	C
ATOM	3174	CB	TRP	C	62	76.395	24.753	13.707	1.00	48.86	C
ATOM	3175	CG	TRP	C	62	75.993	23.317	13.767	1.00	48.12	C
ATOM	3176	CD2	TRP	C	62	75.811	22.427	12.656	1.00	44.01	C
ATOM	3177	CE2	TRP	C	62	75.476	21.166	13.183	1.00	41.52	C
ATOM	3178	CE3	TRP	C	62	75.898	22.576	11.265	1.00	36.63	C
ATOM	3179	CD1	TRP	C	62	75.763	22.582	14.886	1.00	44.82	C
ATOM	3180	NE1	TRP	C	62	75.450	21.287	14.546	1.00	44.20	C
ATOM	3181	CZ2	TRP	C	62	75.231	20.061	12.374	1.00	43.40	C
ATOM	3182	CZ3	TRP	C	62	75.651	21.478	10.462	1.00	36.76	C
ATOM	3183	CH2	TRP	C	62	75.322	20.237	11.020	1.00	42.90	C
ATOM	3184	C	TRP	C	62	78.162	26.446	13.262	1.00	49.06	C
ATOM	3185	O	TRP	C	62	77.735	27.281	14.047	1.00	51.86	C
ATOM	3186	N	VAL	C	63	78.868	26.742	12.184	1.00	46.89	C
ATOM	3187	CA	VAL	C	63	79.283	28.084	11.813	1.00	44.37	C
ATOM	3188	CB	VAL	C	63	79.919	28.057	10.434	1.00	43.71	C
ATOM	3189	CG1	VAL	C	63	81.040	27.030	10.421	1.00	40.49	C
ATOM	3190	CG2	VAL	C	63	78.861	27.733	9.389	1.00	41.78	C
ATOM	3191	C	VAL	C	63	78.283	29.228	11.818	1.00	47.23	C
ATOM	3192	O	VAL	C	63	78.680	30.377	11.931	1.00	48.29	C
ATOM	3193	N	GLY	C	64	76.998	28.951	11.687	1.00	46.89	C
ATOM	3194	CA	GLY	C	64	76.062	30.061	11.669	1.00	42.07	C
ATOM	3195	C	GLY	C	64	75.617	30.507	13.043	1.00	41.36	C
ATOM	3196	O	GLY	C	64	75.494	31.702	13.327	1.00	39.09	C
ATOM	3197	N	THR	C	65	75.405	29.524	13.908	1.00	43.14	C
ATOM	3198	CA	THR	C	65	74.930	29.751	15.262	1.00	50.68	C
ATOM	3199	CB	THR	C	65	73.668	28.894	15.484	1.00	53.28	C
ATOM	3200	OG1	THR	C	65	73.977	27.506	15.266	1.00	48.48	C
ATOM	3201	CG2	THR	C	65	72.572	29.310	14.496	1.00	49.79	C
ATOM	3202	C	THR	C	65	75.945	29.479	16.397	1.00	53.49	C
ATOM	3203	O	THR	C	65	75.601	29.602	17.577	1.00	52.73	C
ATOM	3204	N	LYS	C	66	77.184	29.125	16.041	1.00	53.24	C
ATOM	3205	CA	LYS	C	66	78.241	28.826	17.015	1.00	55.27	C
ATOM	3206	CB	LYS	C	66	78.667	30.078	17.791	1.00	50.49	C
ATOM	3207	CG	LYS	C	66	79.414	31.143	16.998	1.00	55.47	C
ATOM	3208	CD	LYS	C	66	79.774	32.316	17.918	1.00	55.85	C
ATOM	3209	CE	LYS	C	66	80.097	33.597	17.145	1.00	61.29	C
ATOM	3210	NZ	LYS	C	66	81.423	33.555	16.467	1.00	62.61	C
ATOM	3211	C	LYS	C	66	77.721	27.790	17.992	1.00	52.15	C
ATOM	3212	O	LYS	C	66	77.559	28.049	19.180	1.00	54.75	C
ATOM	3213	N	LYS	C	67	77.448	26.607	17.484	1.00	50.43	C
ATOM	3214	CA	LYS	C	67	76.930	25.566	18.333	1.00	50.66	C
ATOM	3215	CB	LYS	C	67	75.483	25.266	17.943	1.00	49.53	C
ATOM	3216	CG	LYS	C	67	74.498	26.377	18.333	1.00	49.67	C
ATOM	3217	CD	LYS	C	67	73.074	26.024	17.922	1.00	57.94	C
ATOM	3218	CE	LYS	C	67	72.054	26.740	18.798	1.00	57.64	C
ATOM	3219	NZ	LYS	C	67	72.180	26.345	20.239	1.00	59.18	C
ATOM	3220	C	LYS	C	67	77.800	24.342	18.179	1.00	45.22	C
ATOM	3221	O	LYS	C	67	78.447	24.168	17.149	1.00	45.51	C
ATOM	3222	N	ALA	C	68	77.833	23.502	19.212	1.00	44.86	C
ATOM	3223	CA	ALA	C	68	78.644	22.284	19.170	1.00	47.72	C
ATOM	3224	CB	ALA	C	68	79.203	21.972	20.550	1.00	45.35	C
ATOM	3225	C	ALA	C	68	77.785	21.138	18.689	1.00	47.98	C
ATOM	3226	O	ALA	C	68	76.563	21.166	18.821	1.00	54.67	C
ATOM	3227	N	LEU	C	69	78.410	20.124	18.128	1.00	46.66	C
ATOM	3228	CA	LEU	C	69	77.616	19.024	17.654	1.00	49.29	C
ATOM	3229	CB	LEU	C	69	78.489	17.994	16.947	1.00	40.50	C
ATOM	3230	CG	LEU	C	69	77.847	17.249	15.775	1.00	44.35	C
ATOM	3231	CD1	LEU	C	69	77.921	18.139	14.564	1.00	39.65	C
ATOM	3232	CD2	LEU	C	69	78.568	15.951	15.479	1.00	41.91	C
ATOM	3233	C	LEU	C	69	76.919	18.365	18.832	1.00	48.81	C

ATOM	3234	O	LEU	C	69	77.543	18.126	19.870	1.00	55.10	C
ATOM	3235	N	THR	C	70	75.615	18.121	18.686	1.00	49.89	C
ATOM	3236	CA	THR	C	70	74.835	17.412	19.708	1.00	45.75	C
ATOM	3237	CB	THR	C	70	73.450	18.030	19.956	1.00	50.87	C
ATOM	3238	OG1	THR	C	70	72.724	18.094	18.725	1.00	50.67	C
ATOM	3239	CG2	THR	C	70	73.590	19.404	20.544	1.00	43.74	C
ATOM	3240	C	THR	C	70	74.630	16.037	19.087	1.00	45.70	C
ATOM	3241	O	THR	C	70	74.890	15.858	17.898	1.00	43.31	C
ATOM	3242	N	ASN	C	71	74.184	15.052	19.851	1.00	44.70	C
ATOM	3243	CA	ASN	C	71	74.003	13.756	19.220	1.00	49.10	C
ATOM	3244	CB	ASN	C	71	73.902	12.657	20.282	1.00	53.03	C
ATOM	3245	CG	ASN	C	71	75.267	12.224	20.795	1.00	58.95	C
ATOM	3246	OD1	ASN	C	71	76.087	11.681	20.038	1.00	51.94	C
ATOM	3247	ND2	ASN	C	71	75.524	12.469	22.080	1.00	54.61	C
ATOM	3248	C	ASN	C	71	72.782	13.757	18.287	1.00	50.52	C
ATOM	3249	O	ASN	C	71	72.664	12.901	17.393	1.00	46.96	C
ATOM	3250	N	GLU	C	72	71.891	14.732	18.488	1.00	50.08	C
ATOM	3251	CA	GLU	C	72	70.694	14.863	17.668	1.00	53.16	C
ATOM	3252	CB	GLU	C	72	69.797	15.992	18.186	1.00	50.04	C
ATOM	3253	CG	GLU	C	72	69.035	15.684	19.468	1.00	49.89	C
ATOM	3254	CD	GLU	C	72	69.949	15.454	20.668	1.00	58.96	C
ATOM	3255	OE1	GLU	C	72	70.778	16.354	20.953	1.00	60.61	C
ATOM	3256	OE2	GLU	C	72	69.831	14.383	21.325	1.00	49.97	C
ATOM	3257	C	GLU	C	72	71.119	15.195	16.256	1.00	51.88	C
ATOM	3258	O	GLU	C	72	70.616	14.635	15.289	1.00	48.56	C
ATOM	3259	N	ALA	C	73	72.066	16.111	16.158	1.00	49.78	C
ATOM	3260	CA	ALA	C	73	72.566	16.562	14.878	1.00	48.42	C
ATOM	3261	CB	ALA	C	73	73.292	17.884	15.053	1.00	45.24	C
ATOM	3262	C	ALA	C	73	73.477	15.579	14.171	1.00	50.19	C
ATOM	3263	O	ALA	C	73	73.236	15.246	13.015	1.00	49.60	C
ATOM	3264	N	GLU	C	74	74.525	15.124	14.852	1.00	46.85	C
ATOM	3265	CA	GLU	C	74	75.483	14.209	14.247	1.00	37.79	C
ATOM	3266	CB	GLU	C	74	76.282	13.474	15.307	1.00	40.37	C
ATOM	3267	CG	GLU	C	74	77.376	12.557	14.730	1.00	37.63	C
ATOM	3268	CD	GLU	C	74	76.888	11.151	14.333	1.00	45.04	C
ATOM	3269	OE1	GLU	C	74	76.314	10.437	15.194	1.00	41.13	C
ATOM	3270	OE2	GLU	C	74	77.102	10.754	13.160	1.00	45.49	C
ATOM	3271	C	GLU	C	74	74.848	13.179	13.355	1.00	39.71	C
ATOM	3272	O	GLU	C	74	74.022	12.386	13.807	1.00	49.80	C
ATOM	3273	N	ASN	C	75	75.228	13.191	12.082	1.00	38.06	C
ATOM	3274	CA	ASN	C	75	74.717	12.209	11.132	1.00	38.37	C
ATOM	3275	CB	ASN	C	75	73.440	12.706	10.445	1.00	33.92	C
ATOM	3276	CG	ASN	C	75	72.712	11.590	9.696	1.00	39.07	C
ATOM	3277	OD1	ASN	C	75	72.525	10.481	10.228	1.00	36.39	C
ATOM	3278	ND2	ASN	C	75	72.292	11.877	8.459	1.00	37.76	C
ATOM	3279	C	ASN	C	75	75.799	11.895	10.107	1.00	43.46	C
ATOM	3280	O	ASN	C	75	75.629	12.129	8.908	1.00	48.09	C
ATOM	3281	N	TRP	C	76	76.918	11.376	10.621	1.00	45.91	C
ATOM	3282	CA	TRP	C	76	78.073	10.997	9.816	1.00	41.28	C
ATOM	3283	CB	TRP	C	76	79.341	10.871	10.667	1.00	42.03	C
ATOM	3284	CG	TRP	C	76	79.919	12.136	11.247	1.00	39.22	C
ATOM	3285	CD2	TRP	C	76	80.573	13.201	10.538	1.00	37.48	C
ATOM	3286	CE2	TRP	C	76	81.015	14.132	11.501	1.00	30.73	C
ATOM	3287	CE3	TRP	C	76	80.830	13.458	9.184	1.00	43.81	C
ATOM	3288	CD1	TRP	C	76	79.989	12.463	12.568	1.00	34.92	C
ATOM	3289	NE1	TRP	C	76	80.646	13.656	12.730	1.00	31.87	C
ATOM	3290	CZ2	TRP	C	76	81.699	15.303	11.157	1.00	36.18	C
ATOM	3291	CZ3	TRP	C	76	81.516	14.631	8.840	1.00	37.04	C
ATOM	3292	CH2	TRP	C	76	81.940	15.533	9.824	1.00	42.91	C
ATOM	3293	C	TRP	C	76	77.791	9.630	9.242	1.00	43.72	C
ATOM	3294	O	TRP	C	76	77.247	8.782	9.938	1.00	43.06	C
ATOM	3295	N	ALA	C	77	78.162	9.411	7.985	1.00	43.19	C
ATOM	3296	CA	ALA	C	77	77.954	8.113	7.365	1.00	45.24	C
ATOM	3297	CB	ALA	C	77	78.009	8.216	5.867	1.00	38.65	C
ATOM	3298	C	ALA	C	77	79.074	7.226	7.849	1.00	47.44	C
ATOM	3299	O	ALA	C	77	80.137	7.709	8.234	1.00	45.59	C

ATOM	3300	N	ASP	C	78	78.835	5.925	7.824	1.00	53.86	C
ATOM	3301	CA	ASP	C	78	79.823	4.963	8.270	1.00	60.63	C
ATOM	3302	CB	ASP	C	78	79.456	3.574	7.746	1.00	65.07	C
ATOM	3303	CG	ASP	C	78	77.974	3.259	7.904	1.00	67.69	C
ATOM	3304	OD1	ASP	C	78	77.483	3.244	9.064	1.00	61.96	C
ATOM	3305	OD2	ASP	C	78	77.308	3.028	6.863	1.00	66.00	C
ATOM	3306	C	ASP	C	78	81.225	5.339	7.792	1.00	63.67	C
ATOM	3307	O	ASP	C	78	81.416	5.771	6.654	1.00	65.30	C
ATOM	3308	N	ASN	C	79	82.197	5.182	8.683	1.00	63.61	C
ATOM	3309	CA	ASN	C	79	83.598	5.461	8.379	1.00	61.54	C
ATOM	3310	CB	ASN	C	79	84.021	4.648	7.150	1.00	62.79	C
ATOM	3311	CG	ASN	C	79	84.045	3.154	7.426	1.00	70.30	C
ATOM	3312	OD1	ASN	C	79	83.916	2.337	6.512	1.00	74.25	C
ATOM	3313	ND2	ASN	C	79	84.221	2.789	8.695	1.00	72.05	C
ATOM	3314	C	ASN	C	79	83.920	6.935	8.172	1.00	59.85	C
ATOM	3315	O	ASN	C	79	84.751	7.285	7.342	1.00	64.37	C
ATOM	3316	N	GLU	C	80	83.282	7.802	8.941	1.00	56.00	C
ATOM	3317	CA	GLU	C	80	83.529	9.220	8.794	1.00	50.39	C
ATOM	3318	CB	GLU	C	80	82.616	9.796	7.698	1.00	50.73	C
ATOM	3319	CG	GLU	C	80	82.769	9.171	6.300	1.00	53.67	C
ATOM	3320	CD	GLU	C	80	83.913	9.770	5.492	1.00	54.48	C
ATOM	3321	OE1	GLU	C	80	84.707	10.541	6.073	1.00	44.91	C
ATOM	3322	OE2	GLU	C	80	84.021	9.473	4.277	1.00	52.79	C
ATOM	3323	C	GLU	C	80	83.284	9.929	10.127	1.00	48.08	C
ATOM	3324	O	GLU	C	80	82.552	9.423	10.983	1.00	40.51	C
ATOM	3325	N	PRO	C	81	83.947	11.081	10.344	1.00	46.98	C
ATOM	3326	CD	PRO	C	81	83.829	11.924	11.546	1.00	45.35	C
ATOM	3327	CA	PRO	C	81	84.886	11.677	9.389	1.00	52.06	C
ATOM	3328	CB	PRO	C	81	85.238	13.017	10.045	1.00	51.12	C
ATOM	3329	CG	PRO	C	81	85.110	12.728	11.496	1.00	55.71	C
ATOM	3330	C	PRO	C	81	86.095	10.741	9.227	1.00	56.23	C
ATOM	3331	O	PRO	C	81	86.078	9.606	9.731	1.00	55.21	C
ATOM	3332	N	ASN	C	82	87.144	11.197	8.545	1.00	59.15	C
ATOM	3333	CA	ASN	C	82	88.305	10.336	8.335	1.00	63.41	C
ATOM	3334	CB	ASN	C	82	87.973	9.291	7.275	1.00	57.30	C
ATOM	3335	CG	ASN	C	82	87.825	9.909	5.884	1.00	56.62	C
ATOM	3336	OD1	ASN	C	82	87.128	10.926	5.709	1.00	58.27	C
ATOM	3337	ND2	ASN	C	82	88.482	9.303	4.888	1.00	62.94	C
ATOM	3338	C	ASN	C	82	89.527	11.097	7.863	1.00	67.27	C
ATOM	3339	O	ASN	C	82	90.584	10.502	7.640	1.00	66.75	C
ATOM	3340	N	ASN	C	83	89.398	12.404	7.689	1.00	67.75	C
ATOM	3341	CA	ASN	C	83	90.533	13.153	7.197	1.00	69.23	C
ATOM	3342	CB	ASN	C	83	90.088	14.054	6.051	1.00	67.21	C
ATOM	3343	CG	ASN	C	83	89.758	13.257	4.804	1.00	71.95	C
ATOM	3344	OD1	ASN	C	83	90.606	12.533	4.288	1.00	62.56	C
ATOM	3345	ND2	ASN	C	83	88.525	13.371	4.323	1.00	71.84	C
ATOM	3346	C	ASN	C	83	91.308	13.917	8.251	1.00	72.57	C
ATOM	3347	O	ASN	C	83	90.734	14.463	9.201	1.00	68.46	C
ATOM	3348	N	LYS	C	84	92.630	13.925	8.057	1.00	76.29	C
ATOM	3349	CA	LYS	C	84	93.594	14.559	8.958	1.00	77.98	C
ATOM	3350	CB	LYS	C	84	94.784	13.605	9.185	1.00	77.97	C
ATOM	3351	CG	LYS	C	84	95.278	12.883	7.909	1.00	78.12	C
ATOM	3352	CD	LYS	C	84	96.424	11.877	8.161	1.00	72.84	C
ATOM	3353	CE	LYS	C	84	96.183	10.994	9.387	1.00	65.98	C
ATOM	3354	NZ	LYS	C	84	94.758	10.603	9.570	1.00	59.49	C
ATOM	3355	C	LYS	C	84	94.122	15.923	8.517	1.00	78.10	C
ATOM	3356	O	LYS	C	84	94.030	16.901	9.265	1.00	78.29	C
ATOM	3357	N	ARG	C	85	94.675	15.994	7.312	1.00	78.24	C
ATOM	3358	CA	ARG	C	85	95.228	17.255	6.836	1.00	78.28	C
ATOM	3359	CB	ARG	C	85	95.634	17.135	5.365	1.00	79.15	C
ATOM	3360	CG	ARG	C	85	96.279	15.797	5.092	1.00	82.33	C
ATOM	3361	CD	ARG	C	85	96.900	15.664	3.726	1.00	87.35	C
ATOM	3362	NE	ARG	C	85	97.377	14.292	3.558	1.00	97.55	C
ATOM	3363	CZ	ARG	C	85	98.197	13.886	2.594	1.00	105.26	C
ATOM	3364	NH1	ARG	C	85	98.566	12.612	2.532	1.00	108.15	C
ATOM	3365	NH2	ARG	C	85	98.656	14.752	1.699	1.00	107.37	C

ATOM 3366 C ARG C 85 94.264 18.414 7.045 1.00 78.97 C
ATOM 3367 O ARG C 85 93.045 18.240 7.138 1.00 79.81 C
ATOM 3368 N ASN C 86 94.834 19.603 7.152 1.00 81.11 C
ATOM 3369 CA ASN C 86 94.056 20.808 7.361 1.00 84.20 C
ATOM 3370 CB ASN C 86 95.006 21.963 7.693 1.00 88.06 C
ATOM 3371 CG ASN C 86 96.456 21.631 7.364 1.00 92.68 C
ATOM 3372 OD1 ASN C 86 96.788 21.312 6.218 1.00 94.08 C
ATOM 3373 ND2 ASN C 86 97.327 21.695 8.371 1.00 96.41 C
ATOM 3374 C ASN C 86 93.213 21.130 6.124 1.00 82.56 C
ATOM 3375 O ASN C 86 93.355 20.491 5.073 1.00 79.60 C
ATOM 3376 N ASN C 87 92.335 22.121 6.266 1.00 79.00 C
ATOM 3377 CA ASN C 87 91.439 22.556 5.198 1.00 76.50 C
ATOM 3378 CB ASN C 87 92.221 23.296 4.106 1.00 79.85 C
ATOM 3379 CG ASN C 87 91.543 24.599 3.689 1.00 83.55 C
ATOM 3380 OD1 ASN C 87 91.009 25.327 4.533 1.00 82.03 C
ATOM 3381 ND2 ASN C 87 91.573 24.904 2.391 1.00 85.57 C
ATOM 3382 C ASN C 87 90.679 21.360 4.624 1.00 73.25 C
ATOM 3383 O ASN C 87 89.949 21.463 3.633 1.00 73.11 C
ATOM 3384 N GLU C 88 90.856 20.217 5.263 1.00 70.16 C
ATOM 3385 CA GLU C 88 90.156 19.029 4.849 1.00 68.57 C
ATOM 3386 CB GLU C 88 91.122 17.843 4.737 1.00 65.51 C
ATOM 3387 CG GLU C 88 92.283 18.031 3.754 1.00 67.17 C
ATOM 3388 CD GLU C 88 93.037 16.719 3.462 1.00 70.03 C
ATOM 3389 OE1 GLU C 88 93.342 15.977 4.432 1.00 67.31 C
ATOM 3390 OE2 GLU C 88 93.332 16.428 2.268 1.00 63.84 C
ATOM 3391 C GLU C 88 89.154 18.813 5.980 1.00 68.01 C
ATOM 3392 O GLU C 88 88.768 17.685 6.278 1.00 69.48 C
ATOM 3393 N ASP C 89 88.748 19.904 6.622 1.00 63.99 C
ATOM 3394 CA ASP C 89 87.796 19.809 7.719 1.00 61.59 C
ATOM 3395 CB ASP C 89 88.416 20.386 9.001 1.00 54.69 C
ATOM 3396 CG ASP C 89 87.984 21.815 9.282 1.00 56.15 C
ATOM 3397 OD1 ASP C 89 87.959 22.620 8.334 1.00 57.78 C
ATOM 3398 OD2 ASP C 89 87.677 22.140 10.454 1.00 54.80 C
ATOM 3399 C ASP C 89 86.444 20.470 7.405 1.00 59.79 C
ATOM 3400 O ASP C 89 85.788 21.019 8.291 1.00 59.89 C
ATOM 3401 N CYS C 90 86.033 20.405 6.137 1.00 60.91 C
ATOM 3402 CA CYS C 90 84.753 20.953 5.686 1.00 59.69 C
ATOM 3403 C CYS C 90 83.817 19.783 5.449 1.00 56.84 C
ATOM 3404 O CYS C 90 84.276 18.721 5.039 1.00 51.18 C
ATOM 3405 CB CYS C 90 84.948 21.740 4.398 1.00 54.48 C
ATOM 3406 SG CYS C 90 85.599 23.399 4.725 1.00 67.67 C
ATOM 3407 N VAL C 91 82.519 19.950 5.687 1.00 56.26 C
ATOM 3408 CA VAL C 91 81.623 18.810 5.498 1.00 52.41 C
ATOM 3409 CB VAL C 91 80.897 18.451 6.811 1.00 52.75 C
ATOM 3410 CG1 VAL C 91 80.041 17.207 6.624 1.00 50.56 C
ATOM 3411 CG2 VAL C 91 81.906 18.197 7.889 1.00 53.34 C
ATOM 3412 C VAL C 91 80.573 18.908 4.406 1.00 52.51 C
ATOM 3413 O VAL C 91 79.913 19.926 4.263 1.00 54.95 C
ATOM 3414 N GLU C 92 80.417 17.831 3.643 1.00 47.95 C
ATOM 3415 CA GLU C 92 79.420 17.779 2.586 1.00 48.25 C
ATOM 3416 CB GLU C 92 80.011 17.143 1.332 1.00 46.71 C
ATOM 3417 CG GLU C 92 80.143 15.629 1.420 1.00 46.88 C
ATOM 3418 CD GLU C 92 80.692 14.997 0.144 1.00 49.05 C
ATOM 3419 OE1 GLU C 92 80.421 15.535 -0.946 1.00 48.11 C
ATOM 3420 OE2 GLU C 92 81.378 13.953 0.223 1.00 51.54 C
ATOM 3421 C GLU C 92 78.310 16.888 3.134 1.00 44.85 C
ATOM 3422 O GLU C 92 78.558 16.123 4.057 1.00 45.45 C
ATOM 3423 N ILE C 93 77.098 16.980 2.587 1.00 42.50 C
ATOM 3424 CA ILE C 93 75.984 16.144 3.053 1.00 40.87 C
ATOM 3425 CB ILE C 93 74.855 16.986 3.713 1.00 42.14 C
ATOM 3426 CG2 ILE C 93 74.327 18.010 2.746 1.00 29.14 C
ATOM 3427 CG1 ILE C 93 73.720 16.074 4.180 1.00 42.11 C
ATOM 3428 CD1 ILE C 93 72.543 16.805 4.779 1.00 40.24 C
ATOM 3429 C ILE C 93 75.397 15.349 1.901 1.00 35.58 C
ATOM 3430 O ILE C 93 74.922 15.911 0.922 1.00 33.14 C
ATOM 3431 N TYR C 94 75.416 14.032 2.034 1.00 35.85 C

ATOM	3432	CA	TYR	C	94	74.918	13.153	0.985	1.00	37.48	C
ATOM	3433	CB	TYR	C	94	75.308	11.712	1.314	1.00	43.10	C
ATOM	3434	CG	TYR	C	94	76.803	11.519	1.313	1.00	51.28	C
ATOM	3435	CD1	TYR	C	94	77.659	12.613	1.217	1.00	52.54	C
ATOM	3436	CE1	TYR	C	94	79.026	12.463	1.213	1.00	54.21	C
ATOM	3437	CD2	TYR	C	94	77.365	10.259	1.409	1.00	48.67	C
ATOM	3438	CE2	TYR	C	94	78.743	10.100	1.411	1.00	51.28	C
ATOM	3439	CZ	TYR	C	94	79.564	11.210	1.309	1.00	56.45	C
ATOM	3440	OH	TYR	C	94	80.927	11.077	1.281	1.00	52.28	C
ATOM	3441	C	TYR	C	94	73.431	13.237	0.683	1.00	34.46	C
ATOM	3442	O	TYR	C	94	72.678	12.313	0.988	1.00	37.01	C
ATOM	3443	N	ILE	C	95	73.018	14.340	0.068	1.00	29.27	C
ATOM	3444	CA	ILE	C	95	71.617	14.538	-0.281	1.00	32.84	C
ATOM	3445	CB	ILE	C	95	71.325	15.983	-0.727	1.00	28.88	C
ATOM	3446	CG2	ILE	C	95	69.932	16.061	-1.333	1.00	27.61	C
ATOM	3447	CG1	ILE	C	95	71.475	16.937	0.454	1.00	27.58	C
ATOM	3448	CD1	ILE	C	95	70.509	16.673	1.592	1.00	23.66	C
ATOM	3449	C	ILE	C	95	71.179	13.632	-1.415	1.00	36.77	C
ATOM	3450	O	ILE	C	95	71.862	13.503	-2.429	1.00	34.22	C
ATOM	3451	N	LYS	C	96	70.017	13.020	-1.240	1.00	33.10	C
ATOM	3452	CA	LYS	C	96	69.453	12.134	-2.247	1.00	35.36	C
ATOM	3453	CB	LYS	C	96	68.886	12.956	-3.405	1.00	37.83	C
ATOM	3454	CG	LYS	C	96	67.871	14.003	-2.994	1.00	29.99	C
ATOM	3455	CD	LYS	C	96	67.303	14.684	-4.223	1.00	31.41	C
ATOM	3456	CE	LYS	C	96	65.934	15.197	-3.912	1.00	32.51	C
ATOM	3457	NZ	LYS	C	96	65.225	14.181	-3.071	1.00	24.66	C
ATOM	3458	C	LYS	C	96	70.468	11.136	-2.787	1.00	39.79	C
ATOM	3459	O	LYS	C	96	70.434	10.791	-3.977	1.00	45.03	C
ATOM	3460	N	SER	C	97	71.365	10.688	-1.909	1.00	43.10	C
ATOM	3461	CA	SER	C	97	72.390	9.711	-2.254	1.00	43.70	C
ATOM	3462	CB	SER	C	97	73.571	9.832	-1.304	1.00	47.43	C
ATOM	3463	OG	SER	C	97	74.422	8.719	-1.444	1.00	48.73	C
ATOM	3464	C	SER	C	97	71.778	8.324	-2.125	1.00	44.22	C
ATOM	3465	O	SER	C	97	71.193	8.006	-1.089	1.00	47.61	C
ATOM	3466	N	PRO	C	98	71.892	7.479	-3.180	1.00	45.64	C
ATOM	3467	CD	PRO	C	98	72.391	7.829	-4.524	1.00	45.94	C
ATOM	3468	CA	PRO	C	98	71.337	6.109	-3.181	1.00	46.65	C
ATOM	3469	CB	PRO	C	98	71.500	5.664	-4.642	1.00	46.69	C
ATOM	3470	CG	PRO	C	98	72.666	6.478	-5.123	1.00	53.91	C
ATOM	3471	C	PRO	C	98	71.901	5.083	-2.186	1.00	50.22	C
ATOM	3472	O	PRO	C	98	71.312	4.024	-1.989	1.00	51.11	C
ATOM	3473	N	SER	C	99	73.026	5.401	-1.557	1.00	53.91	C
ATOM	3474	CA	SER	C	99	73.625	4.504	-0.582	1.00	58.05	C
ATOM	3475	CB	SER	C	99	75.140	4.458	-0.790	1.00	60.22	C
ATOM	3476	OG	SER	C	99	75.671	5.759	-0.977	1.00	65.37	C
ATOM	3477	C	SER	C	99	73.286	4.957	0.843	1.00	56.33	C
ATOM	3478	O	SER	C	99	72.616	4.254	1.599	1.00	54.59	C
ATOM	3479	N	ALA	C	100	73.752	6.140	1.206	1.00	50.74	C
ATOM	3480	CA	ALA	C	100	73.474	6.680	2.525	1.00	51.17	C
ATOM	3481	CB	ALA	C	100	74.683	6.527	3.422	1.00	50.85	C
ATOM	3482	C	ALA	C	100	73.083	8.150	2.393	1.00	46.02	C
ATOM	3483	O	ALA	C	100	73.923	9.055	2.436	1.00	45.59	C
ATOM	3484	N	PRO	C	101	71.786	8.397	2.209	1.00	38.16	C
ATOM	3485	CD	PRO	C	101	70.690	7.423	2.064	1.00	36.72	C
ATOM	3486	CA	PRO	C	101	71.293	9.755	2.070	1.00	37.72	C
ATOM	3487	CB	PRO	C	101	69.853	9.538	1.617	1.00	36.74	C
ATOM	3488	CG	PRO	C	101	69.475	8.267	2.282	1.00	36.44	C
ATOM	3489	C	PRO	C	101	71.394	10.494	3.393	1.00	32.54	C
ATOM	3490	O	PRO	C	101	71.353	9.876	4.459	1.00	32.82	C
ATOM	3491	N	GLY	C	102	71.535	11.815	3.322	1.00	29.97	C
ATOM	3492	CA	GLY	C	102	71.613	12.618	4.529	1.00	34.37	C
ATOM	3493	C	GLY	C	102	72.956	12.564	5.219	1.00	34.49	C
ATOM	3494	O	GLY	C	102	73.462	13.577	5.689	1.00	36.26	C
ATOM	3495	N	LYS	C	103	73.532	11.373	5.289	1.00	35.69	C
ATOM	3496	CA	LYS	C	103	74.827	11.193	5.920	1.00	38.80	C
ATOM	3497	CB	LYS	C	103	75.395	9.816	5.559	1.00	34.01	C

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ATOM	3498	CG	LYS	C	103	74.640	8.629	6.148	1.00	40.80	C
ATOM	3499	CD	LYS	C	103	74.469	8.771	7.656	1.00	38.30	C
ATOM	3500	CE	LYS	C	103	73.954	7.488	8.263	1.00	39.74	C
ATOM	3501	NZ	LYS	C	103	72.904	6.876	7.413	1.00	44.43	C
ATOM	3502	C	LYS	C	103	75.802	12.288	5.490	1.00	39.43	C
ATOM	3503	O	LYS	C	103	75.611	12.927	4.444	1.00	37.03	C
ATOM	3504	N	TRP	C	104	76.841	12.496	6.305	1.00	43.62	C
ATOM	3505	CA	TRP	C	104	77.866	13.513	6.044	1.00	46.89	C
ATOM	3506	CB	TRP	C	104	77.976	14.503	7.210	1.00	44.89	C
ATOM	3507	CG	TRP	C	104	76.693	14.971	7.751	1.00	50.94	C
ATOM	3508	CD2	TRP	C	104	76.460	15.464	9.067	1.00	50.51	C
ATOM	3509	CE2	TRP	C	104	75.116	15.893	9.121	1.00	51.87	C
ATOM	3510	CE3	TRP	C	104	77.257	15.590	10.211	1.00	49.03	C
ATOM	3511	CD1	TRP	C	104	75.521	15.107	7.079	1.00	49.48	C
ATOM	3512	NE1	TRP	C	104	74.564	15.662	7.891	1.00	49.69	C
ATOM	3513	CZ2	TRP	C	104	74.549	16.442	10.273	1.00	53.17	C
ATOM	3514	CZ3	TRP	C	104	76.695	16.134	11.359	1.00	52.54	C
ATOM	3515	CH2	TRP	C	104	75.351	16.555	11.380	1.00	50.46	C
ATOM	3516	C	TRP	C	104	79.257	12.941	5.806	1.00	52.10	C
ATOM	3517	O	TRP	C	104	79.556	11.809	6.159	1.00	45.37	C
ATOM	3518	N	ASN	C	105	80.107	13.761	5.210	1.00	52.66	C
ATOM	3519	CA	ASN	C	105	81.464	13.373	4.950	1.00	57.22	C
ATOM	3520	CB	ASN	C	105	81.586	12.646	3.621	1.00	59.61	C
ATOM	3521	CG	ASN	C	105	83.046	12.388	3.221	1.00	66.92	C
ATOM	3522	OD1	ASN	C	105	83.895	12.054	4.057	1.00	72.85	C
ATOM	3523	ND2	ASN	C	105	83.335	12.533	1.930	1.00	62.26	C
ATOM	3524	C	ASN	C	105	82.326	14.599	4.932	1.00	57.80	C
ATOM	3525	O	ASN	C	105	81.851	15.701	4.685	1.00	60.88	C
ATOM	3526	N	ASP	C	106	83.604	14.383	5.214	1.00	57.08	C
ATOM	3527	CA	ASP	C	106	84.595	15.438	5.243	1.00	53.76	C
ATOM	3528	CB	ASP	C	106	85.506	15.298	6.473	1.00	51.09	C
ATOM	3529	CG	ASP	C	106	85.967	13.870	6.713	1.00	58.79	C
ATOM	3530	OD1	ASP	C	106	85.796	13.004	5.825	1.00	60.43	C
ATOM	3531	OD2	ASP	C	106	86.515	13.625	7.802	1.00	58.74	C
ATOM	3532	C	ASP	C	106	85.419	15.366	3.982	1.00	53.45	C
ATOM	3533	O	ASP	C	106	85.974	14.320	3.650	1.00	47.33	C
ATOM	3534	N	GLU	C	107	85.474	16.484	3.273	1.00	55.11	C
ATOM	3535	CA	GLU	C	107	86.231	16.569	2.040	1.00	56.06	C
ATOM	3536	CB	GLU	C	107	85.292	16.736	0.835	1.00	56.94	C
ATOM	3537	CG	GLU	C	107	85.886	16.323	-0.506	1.00	64.32	C
ATOM	3538	CD	GLU	C	107	86.445	14.903	-0.491	1.00	64.52	C
ATOM	3539	OE1	GLU	C	107	87.530	14.702	0.080	1.00	68.51	C
ATOM	3540	OE2	GLU	C	107	85.810	13.975	-1.039	1.00	50.61	C
ATOM	3541	C	GLU	C	107	87.146	17.772	2.168	1.00	62.97	C
ATOM	3542	O	GLU	C	107	87.340	18.312	3.260	1.00	64.21	C
ATOM	3543	N	HIS	C	108	87.699	18.197	1.045	1.00	63.56	C
ATOM	3544	CA	HIS	C	108	88.614	19.323	1.029	1.00	59.38	C
ATOM	3545	CB	HIS	C	108	89.686	19.034	-0.015	1.00	63.18	C
ATOM	3546	CG	HIS	C	108	90.751	20.075	-0.102	1.00	65.19	C
ATOM	3547	CD2	HIS	C	108	90.675	21.418	-0.240	1.00	66.21	C
ATOM	3548	ND1	HIS	C	108	92.092	19.761	-0.092	1.00	63.50	C
ATOM	3549	CE1	HIS	C	108	92.797	20.870	-0.221	1.00	65.76	C
ATOM	3550	NE2	HIS	C	108	91.960	21.890	-0.315	1.00	65.43	C
ATOM	3551	C	HIS	C	108	87.870	20.625	0.730	1.00	51.64	C
ATOM	3552	O	HIS	C	108	87.221	20.757	-0.310	1.00	48.20	C
ATOM	3553	N	CYS	C	109	87.971	21.593	1.634	1.00	54.53	C
ATOM	3554	CA	CYS	C	109	87.269	22.864	1.459	1.00	57.62	C
ATOM	3555	C	CYS	C	109	87.414	23.526	0.088	1.00	59.50	C
ATOM	3556	O	CYS	C	109	86.669	24.442	-0.248	1.00	64.41	C
ATOM	3557	CB	CYS	C	109	87.701	23.864	2.530	1.00	59.84	C
ATOM	3558	SG	CYS	C	109	87.565	23.278	4.251	1.00	66.25	C
ATOM	3559	N	LEU	C	110	88.367	23.074	-0.707	1.00	63.12	C
ATOM	3560	CA	LEU	C	110	88.563	23.672	-2.010	1.00	63.99	C
ATOM	3561	CB	LEU	C	110	90.024	23.577	-2.421	1.00	64.06	C
ATOM	3562	CG	LEU	C	110	90.786	24.856	-2.116	1.00	66.76	C
ATOM	3563	CD1	LEU	C	110	92.268	24.653	-2.367	1.00	67.71	C

ATOM 3564 CD2 LEU C 110 90.216 25.973 -2.980 1.00 66.79 C
ATOM 3565 C LEU C 110 87.703 23.059 -3.080 1.00 62.71 C
ATOM 3566 O LEU C 110 87.604 23.612 -4.173 1.00 59.49 C
ATOM 3567 N LYS C 111 87.086 21.923 -2.772 1.00 60.84 C
ATOM 3568 CA LYS C 111 86.231 21.235 -3.733 1.00 61.11 C
ATOM 3569 CB LYS C 111 85.939 19.828 -3.243 1.00 65.63 C
ATOM 3570 CG LYS C 111 87.171 18.998 -3.118 1.00 69.54 C
ATOM 3571 CD LYS C 111 87.677 18.604 -4.472 1.00 74.72 C
ATOM 3572 CE LYS C 111 86.838 17.480 -5.015 1.00 80.69 C
ATOM 3573 NZ LYS C 111 86.861 16.317 -4.074 1.00 87.64 C
ATOM 3574 C LYS C 111 84.920 21.976 -4.007 1.00 60.55 C
ATOM 3575 O LYS C 111 84.330 22.588 -3.108 1.00 57.95 C
ATOM 3576 N LYS C 112 84.471 21.926 -5.258 1.00 61.09 C
ATOM 3577 CA LYS C 112 83.244 22.603 -5.647 1.00 60.81 C
ATOM 3578 CB LYS C 112 83.211 22.865 -7.154 1.00 63.42 C
ATOM 3579 CG LYS C 112 84.161 23.948 -7.661 1.00 69.26 C
ATOM 3580 CD LYS C 112 83.884 24.237 -9.140 1.00 77.15 C
ATOM 3581 CE LYS C 112 84.810 25.286 -9.728 1.00 79.21 C
ATOM 3582 NZ LYS C 112 86.218 24.808 -9.775 1.00 80.59 C
ATOM 3583 C LYS C 112 82.026 21.798 -5.250 1.00 59.57 C
ATOM 3584 O LYS C 112 81.781 20.699 -5.761 1.00 56.88 C
ATOM 3585 N LYS C 113 81.273 22.371 -4.319 1.00 55.07 C
ATOM 3586 CA LYS C 113 80.051 21.774 -3.809 1.00 49.41 C
ATOM 3587 CB LYS C 113 80.304 21.154 -2.432 1.00 40.69 C
ATOM 3588 CG LYS C 113 81.266 19.982 -2.450 1.00 48.45 C
ATOM 3589 CD LYS C 113 81.046 19.096 -1.257 1.00 45.70 C
ATOM 3590 CE LYS C 113 81.976 17.922 -1.295 1.00 38.82 C
ATOM 3591 NZ LYS C 113 81.783 17.132 -2.529 1.00 40.41 C
ATOM 3592 C LYS C 113 79.018 22.888 -3.710 1.00 42.37 C
ATOM 3593 O LYS C 113 79.386 24.058 -3.583 1.00 45.61 C
ATOM 3594 N HIS C 114 77.737 22.543 -3.788 1.00 39.71 C
ATOM 3595 CA HIS C 114 76.712 23.570 -3.699 1.00 32.09 C
ATOM 3596 CB HIS C 114 75.387 23.070 -4.251 1.00 37.56 C
ATOM 3597 CG HIS C 114 75.395 22.897 -5.729 1.00 41.05 C
ATOM 3598 CD2 HIS C 114 74.941 23.696 -6.720 1.00 35.91 C
ATOM 3599 ND1 HIS C 114 75.975 21.813 -6.346 1.00 41.12 C
ATOM 3600 CE1 HIS C 114 75.877 21.950 -7.655 1.00 42.20 C
ATOM 3601 NE2 HIS C 114 75.254 23.085 -7.907 1.00 39.31 C
ATOM 3602 C HIS C 114 76.517 24.066 -2.279 1.00 31.36 C
ATOM 3603 O HIS C 114 76.600 23.299 -1.317 1.00 33.00 C
ATOM 3604 N ALA C 115 76.255 25.360 -2.147 1.00 34.60 C
ATOM 3605 CA ALA C 115 76.058 25.944 -0.838 1.00 36.64 C
ATOM 3606 CB ALA C 115 76.454 27.407 -0.869 1.00 29.04 C
ATOM 3607 C ALA C 115 74.623 25.789 -0.337 1.00 38.11 C
ATOM 3608 O ALA C 115 73.673 26.309 -0.936 1.00 34.31 C
ATOM 3609 N LEU C 116 74.486 25.051 0.765 1.00 38.29 C
ATOM 3610 CA LEU C 116 73.199 24.821 1.413 1.00 37.43 C
ATOM 3611 CB LEU C 116 73.152 23.426 2.051 1.00 34.26 C
ATOM 3612 CG LEU C 116 71.838 22.894 2.646 1.00 31.66 C
ATOM 3613 CD1 LEU C 116 70.665 23.451 1.876 1.00 23.39 C
ATOM 3614 CD2 LEU C 116 71.824 21.363 2.617 1.00 25.93 C
ATOM 3615 C LEU C 116 73.147 25.884 2.482 1.00 36.98 C
ATOM 3616 O LEU C 116 73.905 25.829 3.444 1.00 43.29 C
ATOM 3617 N CYS C 117 72.266 26.861 2.286 1.00 33.89 C
ATOM 3618 CA CYS C 117 72.120 27.979 3.211 1.00 36.97 C
ATOM 3619 C CYS C 117 70.829 27.969 3.990 1.00 39.68 C
ATOM 3620 O CYS C 117 69.911 27.199 3.712 1.00 43.50 C
ATOM 3621 CB CYS C 117 72.124 29.312 2.474 1.00 32.40 C
ATOM 3622 SG CYS C 117 73.384 29.582 1.218 1.00 48.71 C
ATOM 3623 N TYR C 118 70.762 28.877 4.950 1.00 38.50 C
ATOM 3624 CA TYR C 118 69.566 29.037 5.730 1.00 33.64 C
ATOM 3625 CB TYR C 118 69.630 28.235 7.022 1.00 39.23 C
ATOM 3626 CG TYR C 118 70.463 28.862 8.112 1.00 39.84 C
ATOM 3627 CD1 TYR C 118 71.856 28.793 8.078 1.00 40.36 C
ATOM 3628 CE1 TYR C 118 72.643 29.353 9.099 1.00 38.47 C
ATOM 3629 CD2 TYR C 118 69.863 29.512 9.182 1.00 34.42 C

ATOM	3630	CE2	TYR	C	118	70.633	30.075	10.195	1.00	40.41	C
ATOM	3631	CZ	TYR	C	118	72.023	29.988	10.150	1.00	43.19	C
ATOM	3632	OH	TYR	C	118	72.792	30.506	11.162	1.00	34.55	C
ATOM	3633	C	TYR	C	118	69.453	30.496	6.078	1.00	38.12	C
ATOM	3634	O	TYR	C	118	70.438	31.224	6.055	1.00	38.26	C
ATOM	3635	N	THR	C	119	68.243	30.929	6.387	1.00	35.73	C
ATOM	3636	CA	THR	C	119	68.023	32.299	6.801	1.00	29.27	C
ATOM	3637	CB	THR	C	119	67.178	33.051	5.825	1.00	33.26	C
ATOM	3638	OG1	THR	C	119	67.819	33.035	4.552	1.00	32.64	C
ATOM	3639	CG2	THR	C	119	67.010	34.469	6.281	1.00	30.66	C
ATOM	3640	C	THR	C	119	67.255	32.165	8.084	1.00	33.74	C
ATOM	3641	O	THR	C	119	66.120	31.692	8.087	1.00	28.63	C
ATOM	3642	N	ALA	C	120	67.870	32.550	9.187	1.00	29.99	C
ATOM	3643	CA	ALA	C	120	67.179	32.421	10.449	1.00	31.89	C
ATOM	3644	CB	ALA	C	120	68.028	32.939	11.570	1.00	32.06	C
ATOM	3645	C	ALA	C	120	65.878	33.182	10.406	1.00	31.01	C
ATOM	3646	O	ALA	C	120	65.811	34.290	9.876	1.00	34.04	C
ATOM	3647	N	SER	C	121	64.835	32.581	10.954	1.00	29.24	C
ATOM	3648	CA	SER	C	121	63.561	33.250	10.991	1.00	28.92	C
ATOM	3649	CB	SER	C	121	62.430	32.228	10.890	1.00	32.36	C
ATOM	3650	OG	SER	C	121	62.454	31.602	9.623	1.00	34.51	C
ATOM	3651	C	SER	C	121	63.506	34.028	12.304	1.00	31.57	C
ATOM	3652	O	SER	C	121	62.741	34.976	12.445	1.00	28.14	C
ATOM	3653	N	CYS	C	122	64.333	33.640	13.261	1.00	27.22	C
ATOM	3654	CA	CYS	C	122	64.336	34.349	14.518	1.00	36.19	C
ATOM	3655	C	CYS	C	122	64.937	35.742	14.363	1.00	36.26	C
ATOM	3656	O	CYS	C	122	66.072	35.908	13.891	1.00	39.04	C
ATOM	3657	CB	CYS	C	122	65.110	33.576	15.602	1.00	34.58	C
ATOM	3658	SG	CYS	C	122	64.185	32.198	16.357	1.00	36.33	C
ATOM	3659	N	GLN	C	123	64.154	36.741	14.770	1.00	45.05	C
ATOM	3660	CA	GLN	C	123	64.585	38.132	14.741	1.00	48.28	C
ATOM	3661	CB	GLN	C	123	63.502	39.024	14.122	1.00	50.21	C
ATOM	3662	CG	GLN	C	123	63.264	38.740	12.641	1.00	54.25	C
ATOM	3663	CD	GLN	C	123	64.547	38.813	11.799	1.00	63.59	C
ATOM	3664	OE1	GLN	C	123	64.596	38.306	10.661	1.00	58.57	C
ATOM	3665	NE2	GLN	C	123	65.587	39.452	12.352	1.00	66.66	C
ATOM	3666	C	GLN	C	123	64.937	38.638	16.154	1.00	52.34	C
ATOM	3667	O	GLN	C	123	64.910	37.886	17.154	1.00	51.22	C
ATOM	3668	N	ASP	C	124	65.284	39.920	16.220	1.00	53.18	C
ATOM	3669	CA	ASP	C	124	65.651	40.549	17.473	1.00	53.49	C
ATOM	3670	CB	ASP	C	124	66.305	41.917	17.209	1.00	61.04	C
ATOM	3671	CG	ASP	C	124	66.800	42.598	18.489	1.00	65.79	C
ATOM	3672	OD1	ASP	C	124	67.716	42.039	19.151	1.00	63.68	C
ATOM	3673	OD2	ASP	C	124	66.270	43.692	18.824	1.00	61.29	C
ATOM	3674	C	ASP	C	124	64.408	40.712	18.335	1.00	49.23	C
ATOM	3675	O	ASP	C	124	64.356	40.180	19.437	1.00	43.44	C
ATOM	3676	N	MET	C	125	63.397	41.409	17.827	1.00	51.80	C
ATOM	3677	CA	MET	C	125	62.191	41.648	18.611	1.00	52.03	C
ATOM	3678	CB	MET	C	125	61.430	42.829	18.031	1.00	60.23	C
ATOM	3679	CG	MET	C	125	62.210	44.119	18.066	1.00	69.47	C
ATOM	3680	SD	MET	C	125	61.209	45.510	17.522	1.00	87.26	C
ATOM	3681	CE	MET	C	125	60.004	45.640	18.947	1.00	80.69	C
ATOM	3682	C	MET	C	125	61.224	40.485	18.791	1.00	50.66	C
ATOM	3683	O	MET	C	125	60.108	40.684	19.268	1.00	42.80	C
ATOM	3684	N	SER	C	126	61.646	39.275	18.438	1.00	46.37	C
ATOM	3685	CA	SER	C	126	60.767	38.110	18.553	1.00	37.99	C
ATOM	3686	CB	SER	C	126	61.263	36.980	17.633	1.00	41.97	C
ATOM	3687	OG	SER	C	126	61.089	37.304	16.259	1.00	59.01	C
ATOM	3688	C	SER	C	126	60.575	37.587	19.977	1.00	37.73	C
ATOM	3689	O	SER	C	126	61.391	37.846	20.864	1.00	42.74	C
ATOM	3690	N	CYS	C	127	59.485	36.844	20.175	1.00	31.24	C
ATOM	3691	CA	CYS	C	127	59.137	36.289	21.480	1.00	28.98	C
ATOM	3692	C	CYS	C	127	59.042	37.382	22.565	1.00	31.17	C
ATOM	3693	O	CYS	C	127	59.027	37.103	23.773	1.00	29.65	C
ATOM	3694	CB	CYS	C	127	60.152	35.225	21.883	1.00	36.40	C
ATOM	3695	SG	CYS	C	127	60.287	33.909	20.650	1.00	35.17	C

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ATOM	3696	N	SER	C	128	58.971	38.632	22.119	1.00	32.46	C
ATOM	3697	CA	SER	C	128	58.866	39.757	23.030	1.00	32.93	C
ATOM	3698	CB	SER	C	128	57.577	39.633	23.851	1.00	36.28	C
ATOM	3699	OG	SER	C	128	56.474	39.310	23.021	1.00	42.93	C
ATOM	3700	C	SER	C	128	60.080	39.775	23.955	1.00	34.42	C
ATOM	3701	O	SER	C	128	59.991	40.236	25.086	1.00	33.96	C
ATOM	3702	N	LYS	C	129	61.212	39.278	23.460	1.00	34.50	C
ATOM	3703	CA	LYS	C	129	62.453	39.205	24.241	1.00	41.28	C
ATOM	3704	CB	LYS	C	129	63.070	40.598	24.449	1.00	41.46	C
ATOM	3705	CG	LYS	C	129	63.462	41.355	23.185	1.00	48.63	C
ATOM	3706	CD	LYS	C	129	62.494	42.516	22.931	1.00	61.58	C
ATOM	3707	CE	LYS	C	129	62.837	43.287	21.644	1.00	68.51	C
ATOM	3708	NZ	LYS	C	129	61.745	44.219	21.202	1.00	73.40	C
ATOM	3709	C	LYS	C	129	62.145	38.569	25.600	1.00	37.49	C
ATOM	3710	O	LYS	C	129	62.907	38.692	26.564	1.00	39.07	C
ATOM	3711	N	GLN	C	130	61.012	37.885	25.664	1.00	36.69	C
ATOM	3712	CA	GLN	C	130	60.597	37.241	26.891	1.00	29.42	C
ATOM	3713	CB	GLN	C	130	59.180	37.689	27.237	1.00	32.65	C
ATOM	3714	CG	GLN	C	130	59.163	38.987	28.006	1.00	38.08	C
ATOM	3715	CD	GLN	C	130	58.132	39.966	27.483	1.00	39.95	C
ATOM	3716	OE1	GLN	C	130	57.142	39.575	26.858	1.00	37.34	C
ATOM	3717	NE2	GLN	C	130	58.352	41.254	27.746	1.00	35.27	C
ATOM	3718	C	GLN	C	130	60.700	35.706	26.869	1.00	28.56	C
ATOM	3719	O	GLN	C	130	60.234	35.029	27.798	1.00	29.96	C
ATOM	3720	N	GLY	C	131	61.337	35.155	25.835	1.00	29.69	C
ATOM	3721	CA	GLY	C	131	61.484	33.716	25.765	1.00	24.23	C
ATOM	3722	C	GLY	C	131	62.577	33.385	24.796	1.00	29.73	C
ATOM	3723	O	GLY	C	131	63.003	34.255	24.060	1.00	29.54	C
ATOM	3724	N	GLU	C	132	63.049	32.146	24.810	1.00	28.49	C
ATOM	3725	CA	GLU	C	132	64.083	31.717	23.878	1.00	28.36	C
ATOM	3726	CB	GLU	C	132	64.517	30.276	24.200	1.00	29.60	C
ATOM	3727	CG	GLU	C	132	65.396	29.586	23.133	1.00	48.15	C
ATOM	3728	CD	GLU	C	132	66.506	28.702	23.727	1.00	52.62	C
ATOM	3729	OE1	GLU	C	132	66.230	27.945	24.687	1.00	56.89	C
ATOM	3730	OE2	GLU	C	132	67.654	28.758	23.224	1.00	45.68	C
ATOM	3731	C	GLU	C	132	63.443	31.791	22.497	1.00	31.03	C
ATOM	3732	O	GLU	C	132	62.277	32.146	22.372	1.00	29.74	C
ATOM	3733	N	CYS	C	133	64.191	31.484	21.452	1.00	28.28	C
ATOM	3734	CA	CYS	C	133	63.620	31.515	20.120	1.00	31.85	C
ATOM	3735	C	CYS	C	133	64.108	30.289	19.360	1.00	36.50	C
ATOM	3736	O	CYS	C	133	65.227	30.274	18.836	1.00	36.09	C
ATOM	3737	CB	CYS	C	133	64.048	32.777	19.389	1.00	31.51	C
ATOM	3738	SG	CYS	C	133	63.098	33.021	17.870	1.00	31.38	C
ATOM	3739	N	LEU	C	134	63.284	29.248	19.309	1.00	31.58	C
ATOM	3740	CA	LEU	C	134	63.675	28.035	18.600	1.00	34.19	C
ATOM	3741	CB	LEU	C	134	62.937	26.818	19.149	1.00	41.05	C
ATOM	3742	CG	LEU	C	134	63.092	26.691	20.665	1.00	47.43	C
ATOM	3743	CD1	LEU	C	134	62.326	25.460	21.166	1.00	58.10	C
ATOM	3744	CD2	LEU	C	134	64.594	26.617	21.017	1.00	44.15	C
ATOM	3745	C	LEU	C	134	63.346	28.198	17.145	1.00	33.13	C
ATOM	3746	O	LEU	C	134	62.273	28.687	16.796	1.00	31.95	C
ATOM	3747	N	GLU	C	135	64.281	27.808	16.295	1.00	28.73	C
ATOM	3748	CA	GLU	C	135	64.052	27.901	14.874	1.00	32.44	C
ATOM	3749	CB	GLU	C	135	65.390	28.050	14.144	1.00	34.60	C
ATOM	3750	CG	GLU	C	135	66.182	29.318	14.494	1.00	30.09	C
ATOM	3751	CD	GLU	C	135	65.859	30.532	13.617	1.00	41.52	C
ATOM	3752	OE1	GLU	C	135	65.091	30.386	12.649	1.00	44.38	C
ATOM	3753	OE2	GLU	C	135	66.387	31.636	13.892	1.00	42.68	C
ATOM	3754	C	GLU	C	135	63.341	26.621	14.435	1.00	30.54	C
ATOM	3755	O	GLU	C	135	63.766	25.533	14.788	1.00	30.71	C
ATOM	3756	N	THR	C	136	62.242	26.753	13.701	1.00	28.76	C
ATOM	3757	CA	THR	C	136	61.523	25.588	13.203	1.00	30.94	C
ATOM	3758	CB	THR	C	136	59.999	25.694	13.408	1.00	28.42	C
ATOM	3759	OG1	THR	C	136	59.517	26.884	12.792	1.00	26.18	C
ATOM	3760	CG2	THR	C	136	59.645	25.739	14.857	1.00	24.31	C
ATOM	3761	C	THR	C	136	61.781	25.530	11.707	1.00	29.75	C

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ATOM	3762	O	THR	C	136	62.441	26.413	11.153	1.00	34.84	C
ATOM	3763	N	ILE	C	137	61.271	24.499	11.045	1.00	29.00	C
ATOM	3764	CA	ILE	C	137	61.483	24.401	9.612	1.00	32.68	C
ATOM	3765	CB	ILE	C	137	61.098	23.018	9.070	1.00	28.52	C
ATOM	3766	CG2	ILE	C	137	61.356	22.960	7.568	1.00	28.92	C
ATOM	3767	CG1	ILE	C	137	61.878	21.926	9.799	1.00	34.54	C
ATOM	3768	CD1	ILE	C	137	61.556	20.525	9.299	1.00	30.58	C
ATOM	3769	C	ILE	C	137	60.646	25.443	8.882	1.00	32.74	C
ATOM	3770	O	ILE	C	137	59.505	25.179	8.519	1.00	34.67	C
ATOM	3771	N	GLY	C	138	61.213	26.629	8.674	1.00	33.29	C
ATOM	3772	CA	GLY	C	138	60.492	27.680	7.974	1.00	27.56	C
ATOM	3773	C	GLY	C	138	59.963	28.817	8.830	1.00	31.96	C
ATOM	3774	O	GLY	C	138	59.778	29.915	8.328	1.00	28.84	C
ATOM	3775	N	ASN	C	139	59.735	28.553	10.116	1.00	31.32	C
ATOM	3776	CA	ASN	C	139	59.204	29.527	11.086	1.00	31.57	C
ATOM	3777	CB	ASN	C	139	57.779	29.094	11.459	1.00	31.44	C
ATOM	3778	CG	ASN	C	139	56.905	30.228	11.929	1.00	32.68	C
ATOM	3779	OD1	ASN	C	139	57.357	31.338	12.182	1.00	38.61	C
ATOM	3780	ND2	ASN	C	139	55.626	29.938	12.060	1.00	25.59	C
ATOM	3781	C	ASN	C	139	60.115	29.537	12.348	1.00	33.68	C
ATOM	3782	O	ASN	C	139	61.340	29.542	12.244	1.00	30.65	C
ATOM	3783	N	TYR	C	140	59.506	29.542	13.532	1.00	26.99	C
ATOM	3784	CA	TYR	C	140	60.223	29.515	14.812	1.00	27.98	C
ATOM	3785	CB	TYR	C	140	61.092	30.752	15.013	1.00	25.66	C
ATOM	3786	CG	TYR	C	140	60.309	32.034	15.273	1.00	25.35	C
ATOM	3787	CD1	TYR	C	140	60.227	33.024	14.295	1.00	26.51	C
ATOM	3788	CE1	TYR	C	140	59.480	34.183	14.500	1.00	20.39	C
ATOM	3789	CD2	TYR	C	140	59.622	32.243	16.475	1.00	23.27	C
ATOM	3790	CE2	TYR	C	140	58.876	33.389	16.685	1.00	27.60	C
ATOM	3791	CZ	TYR	C	140	58.809	34.350	15.691	1.00	32.29	C
ATOM	3792	OH	TYR	C	140	58.052	35.478	15.846	1.00	32.58	C
ATOM	3793	C	TYR	C	140	59.204	29.508	15.925	1.00	32.80	C
ATOM	3794	O	TYR	C	140	58.163	30.135	15.810	1.00	32.20	C
ATOM	3795	N	THR	C	141	59.482	28.809	17.008	1.00	33.47	C
ATOM	3796	CA	THR	C	141	58.540	28.840	18.111	1.00	31.80	C
ATOM	3797	CB	THR	C	141	58.201	27.409	18.629	1.00	37.26	C
ATOM	3798	OG1	THR	C	141	59.336	26.826	19.275	1.00	45.80	C
ATOM	3799	CG2	THR	C	141	57.785	26.519	17.469	1.00	42.63	C
ATOM	3800	C	THR	C	141	59.195	29.675	19.215	1.00	33.20	C
ATOM	3801	O	THR	C	141	60.350	30.094	19.088	1.00	32.94	C
ATOM	3802	N	CYS	C	142	58.458	29.971	20.271	1.00	34.72	C
ATOM	3803	CA	CYS	C	142	59.045	30.702	21.380	1.00	30.43	C
ATOM	3804	C	CYS	C	142	58.961	29.736	22.577	1.00	29.07	C
ATOM	3805	O	CYS	C	142	58.025	28.924	22.661	1.00	31.95	C
ATOM	3806	CB	CYS	C	142	58.253	31.971	21.657	1.00	25.80	C
ATOM	3807	SG	CYS	C	142	58.395	33.255	20.393	1.00	34.02	C
ATOM	3808	N	SER	C	143	59.919	29.796	23.498	1.00	35.91	C
ATOM	3809	CA	SER	C	143	59.868	28.892	24.638	1.00	38.50	C
ATOM	3810	CB	SER	C	143	61.029	27.901	24.546	1.00	34.70	C
ATOM	3811	OG	SER	C	143	60.942	26.904	25.553	1.00	45.60	C
ATOM	3812	C	SER	C	143	59.881	29.636	25.978	1.00	37.34	C
ATOM	3813	O	SER	C	143	60.564	29.244	26.918	1.00	41.32	C
ATOM	3814	N	CYS	C	144	59.097	30.704	26.043	1.00	36.68	C
ATOM	3815	CA	CYS	C	144	58.949	31.574	27.205	1.00	36.11	C
ATOM	3816	C	CYS	C	144	59.725	31.377	28.517	1.00	35.39	C
ATOM	3817	O	CYS	C	144	59.748	30.298	29.130	1.00	21.51	C
ATOM	3818	CB	CYS	C	144	57.473	31.691	27.539	1.00	36.94	C
ATOM	3819	SG	CYS	C	144	56.514	32.147	26.077	1.00	38.64	C
ATOM	3820	N	TYR	C	145	60.342	32.474	28.952	1.00	39.71	C
ATOM	3821	CA	TYR	C	145	61.091	32.507	30.193	1.00	40.77	C
ATOM	3822	CB	TYR	C	145	61.929	33.785	30.276	1.00	33.29	C
ATOM	3823	CG	TYR	C	145	62.917	33.939	29.159	1.00	31.27	C
ATOM	3824	CD1	TYR	C	145	63.709	32.866	28.751	1.00	31.28	C
ATOM	3825	CE1	TYR	C	145	64.595	32.988	27.672	1.00	35.80	C
ATOM	3826	CD2	TYR	C	145	63.037	35.141	28.476	1.00	24.75	C
ATOM	3827	CE2	TYR	C	145	63.915	35.276	27.397	1.00	29.48	C

ATOM	3828	CZ	TYR	C	145	64.689	34.197	26.997	1.00	33.20	C
ATOM	3829	OH	TYR	C	145	65.535	34.321	25.913	1.00	44.28	C
ATOM	3830	C	TYR	C	145	60.074	32.516	31.329	1.00	45.79	C
ATOM	3831	O	TYR	C	145	59.025	33.167	31.232	1.00	43.60	C
ATOM	3832	N	PRO	C	146	60.363	31.794	32.421	1.00	48.00	C
ATOM	3833	CD	PRO	C	146	61.577	31.018	32.741	1.00	49.48	C
ATOM	3834	CA	PRO	C	146	59.421	31.779	33.539	1.00	48.27	C
ATOM	3835	CB	PRO	C	146	60.304	31.349	34.703	1.00	46.47	C
ATOM	3836	CG	PRO	C	146	61.203	30.329	34.045	1.00	46.58	C
ATOM	3837	C	PRO	C	146	58.770	33.150	33.761	1.00	48.56	C
ATOM	3838	O	PRO	C	146	59.438	34.186	33.767	1.00	50.94	C
ATOM	3839	N	GLY	C	147	57.456	33.160	33.911	1.00	44.13	C
ATOM	3840	CA	GLY	C	147	56.794	34.420	34.143	1.00	48.17	C
ATOM	3841	C	GLY	C	147	56.048	34.960	32.949	1.00	47.56	C
ATOM	3842	O	GLY	C	147	55.222	35.857	33.112	1.00	50.71	C
ATOM	3843	N	PHE	C	148	56.325	34.449	31.751	1.00	44.66	C
ATOM	3844	CA	PHE	C	148	55.618	34.938	30.562	1.00	45.66	C
ATOM	3845	CB	PHE	C	148	56.540	35.763	29.672	1.00	49.03	C
ATOM	3846	CG	PHE	C	148	57.169	36.914	30.377	1.00	52.82	C
ATOM	3847	CD1	PHE	C	148	58.046	36.701	31.432	1.00	52.14	C
ATOM	3848	CD2	PHE	C	148	56.864	38.214	30.013	1.00	49.66	C
ATOM	3849	CE1	PHE	C	148	58.603	37.769	32.111	1.00	51.31	C
ATOM	3850	CE2	PHE	C	148	57.418	39.293	30.686	1.00	53.78	C
ATOM	3851	CZ	PHE	C	148	58.287	39.073	31.735	1.00	51.69	C
ATOM	3852	C	PHE	C	148	55.064	33.784	29.774	1.00	41.21	C
ATOM	3853	O	PHE	C	148	55.662	32.703	29.774	1.00	39.27	C
ATOM	3854	N	TYR	C	149	53.911	34.012	29.133	1.00	35.60	C
ATOM	3855	CA	TYR	C	149	53.243	32.988	28.314	1.00	31.02	C
ATOM	3856	CB	TYR	C	149	52.143	32.263	29.110	1.00	36.66	C
ATOM	3857	CG	TYR	C	149	51.050	33.131	29.658	1.00	38.18	C
ATOM	3858	CD1	TYR	C	149	51.318	34.072	30.642	1.00	40.63	C
ATOM	3859	CE1	TYR	C	149	50.294	34.834	31.221	1.00	49.31	C
ATOM	3860	CD2	TYR	C	149	49.733	32.964	29.244	1.00	43.37	C
ATOM	3861	CE2	TYR	C	149	48.692	33.719	29.806	1.00	41.01	C
ATOM	3862	CZ	TYR	C	149	48.980	34.655	30.800	1.00	48.40	C
ATOM	3863	OH	TYR	C	149	47.977	35.413	31.376	1.00	49.98	C
ATOM	3864	C	TYR	C	149	52.663	33.514	26.991	1.00	36.81	C
ATOM	3865	O	TYR	C	149	52.775	34.704	26.678	1.00	35.33	C
ATOM	3866	N	GLY	C	150	52.060	32.619	26.209	1.00	34.66	C
ATOM	3867	CA	GLY	C	150	51.495	33.015	24.928	1.00	34.75	C
ATOM	3868	C	GLY	C	150	52.350	32.498	23.781	1.00	40.79	C
ATOM	3869	O	GLY	C	150	53.526	32.204	23.999	1.00	36.80	C
ATOM	3870	N	PRO	C	151	51.807	32.369	22.557	1.00	35.82	C
ATOM	3871	CD	PRO	C	151	50.490	32.839	22.115	1.00	37.73	C
ATOM	3872	CA	PRO	C	151	52.573	31.878	21.412	1.00	33.89	C
ATOM	3873	CB	PRO	C	151	51.592	32.027	20.266	1.00	37.14	C
ATOM	3874	CG	PRO	C	151	50.772	33.170	20.693	1.00	38.37	C
ATOM	3875	C	PRO	C	151	53.863	32.659	21.203	1.00	34.05	C
ATOM	3876	O	PRO	C	151	54.775	32.197	20.507	1.00	33.41	C
ATOM	3877	N	GLU	C	152	53.926	33.842	21.821	1.00	30.61	C
ATOM	3878	CA	GLU	C	152	55.117	34.703	21.776	1.00	35.70	C
ATOM	3879	CB	GLU	C	152	54.961	35.732	20.664	1.00	38.36	C
ATOM	3880	CG	GLU	C	152	55.027	35.098	19.302	1.00	44.16	C
ATOM	3881	CD	GLU	C	152	55.940	35.846	18.369	1.00	47.11	C
ATOM	3882	OE1	GLU	C	152	56.991	36.336	18.848	1.00	50.34	C
ATOM	3883	OE2	GLU	C	152	55.616	35.928	17.163	1.00	55.76	C
ATOM	3884	C	GLU	C	152	55.470	35.393	23.124	1.00	37.74	C
ATOM	3885	O	GLU	C	152	56.017	36.506	23.156	1.00	30.94	C
ATOM	3886	N	CYS	C	153	55.169	34.709	24.228	1.00	31.94	C
ATOM	3887	CA	CYS	C	153	55.448	35.222	25.561	1.00	38.29	C
ATOM	3888	C	CYS	C	153	54.986	36.660	25.710	1.00	39.74	C
ATOM	3889	O	CYS	C	153	55.550	37.429	26.483	1.00	37.70	C
ATOM	3890	CB	CYS	C	153	56.939	35.132	25.848	1.00	30.20	C
ATOM	3891	SG	CYS	C	153	57.634	33.588	25.213	1.00	35.86	C
ATOM	3892	N	GLU	C	154	53.951	37.006	24.954	1.00	40.11	C
ATOM	3893	CA	GLU	C	154	53.371	38.339	24.968	1.00	39.88	C

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ATOM	3894	CB	GLU	C	154	52.365	38.464	23.834	1.00	40.50	C
ATOM	3895	CG	GLU	C	154	51.291	37.413	23.888	1.00	41.41	C
ATOM	3896	CD	GLU	C	154	51.150	36.668	22.573	1.00	50.36	C
ATOM	3897	OE1	GLU	C	154	52.057	35.874	22.224	1.00	51.02	C
ATOM	3898	OE2	GLU	C	154	50.131	36.881	21.882	1.00	60.16	C
ATOM	3899	C	GLU	C	154	52.683	38.609	26.297	1.00	43.08	C
ATOM	3900	O	GLU	C	154	52.518	39.763	26.699	1.00	47.95	C
ATOM	3901	N	TYR	C	155	52.287	37.531	26.971	1.00	47.59	C
ATOM	3902	CA	TYR	C	155	51.616	37.615	28.271	1.00	51.26	C
ATOM	3903	CB	TYR	C	155	50.521	36.560	28.370	1.00	52.45	C
ATOM	3904	CG	TYR	C	155	49.517	36.666	27.267	1.00	54.99	C
ATOM	3905	CD1	TYR	C	155	49.066	37.910	26.843	1.00	56.17	C
ATOM	3906	CE1	TYR	C	155	48.139	38.025	25.825	1.00	57.08	C
ATOM	3907	CD2	TYR	C	155	49.015	35.530	26.648	1.00	54.71	C
ATOM	3908	CE2	TYR	C	155	48.085	35.629	25.628	1.00	50.14	C
ATOM	3909	CZ	TYR	C	155	47.651	36.884	25.216	1.00	56.78	C
ATOM	3910	OH	TYR	C	155	46.755	37.002	24.175	1.00	60.33	C
ATOM	3911	C	TYR	C	155	52.564	37.456	29.458	1.00	52.72	C
ATOM	3912	O	TYR	C	155	53.468	36.604	29.452	1.00	48.47	C
ATOM	3913	N	VAL	C	156	52.330	38.275	30.480	1.00	52.83	C
ATOM	3914	CA	VAL	C	156	53.161	38.261	31.672	1.00	53.09	C
ATOM	3915	CB	VAL	C	156	53.961	39.568	31.778	1.00	54.31	C
ATOM	3916	CG1	VAL	C	156	53.016	40.766	31.826	1.00	54.28	C
ATOM	3917	CG2	VAL	C	156	54.842	39.521	32.999	1.00	54.88	C
ATOM	3918	C	VAL	C	156	52.341	38.073	32.949	1.00	53.33	C
ATOM	3919	O	VAL	C	156	51.538	38.946	33.307	1.00	48.79	C
ATOM	3920	N	ARG	C	157	52.554	36.936	33.622	1.00	52.59	C
ATOM	3921	CA	ARG	C	157	51.848	36.595	34.860	1.00	58.35	C
ATOM	3922	CB	ARG	C	157	52.601	35.503	35.622	1.00	52.48	C
ATOM	3923	CG	ARG	C	157	52.320	34.110	35.091	1.00	51.53	C
ATOM	3924	CD	ARG	C	157	50.994	33.567	35.612	1.00	52.64	C
ATOM	3925	NE	ARG	C	157	51.166	32.834	36.866	1.00	52.00	C
ATOM	3926	CZ	ARG	C	157	51.662	31.598	36.958	1.00	51.77	C
ATOM	3927	NH1	ARG	C	157	52.038	30.941	35.868	1.00	43.45	C
ATOM	3928	NH2	ARG	C	157	51.779	31.011	38.144	1.00	36.36	C
ATOM	3929	C	ARG	C	157	51.651	37.801	35.760	1.00	66.15	C
ATOM	3930	O	ARG	C	157	52.503	38.690	35.814	1.00	64.56	C
ATOM	3931	N	ASP	C	158	50.526	37.815	36.471	1.00	73.10	C
ATOM	3932	CA	ASP	C	158	50.174	38.920	37.359	1.00	81.22	C
ATOM	3933	CB	ASP	C	158	48.655	38.976	37.517	1.00	83.24	C
ATOM	3934	CG	ASP	C	158	47.988	39.745	36.401	1.00	89.28	C
ATOM	3935	OD1	ASP	C	158	46.756	39.603	36.230	1.00	90.40	C
ATOM	3936	OD2	ASP	C	158	48.703	40.502	35.705	1.00	89.47	C
ATOM	3937	C	ASP	C	158	50.831	38.957	38.736	1.00	85.23	C
ATOM	3938	O	ASP	C	158	50.986	37.926	39.407	1.00	83.08	C
ATOM	3939	N	ALA	C	159	51.189	40.176	39.139	1.00	91.19	C
ATOM	3940	CA	ALA	C	159	51.835	40.445	40.414	1.00	96.42	C
ATOM	3941	CB	ALA	C	159	50.887	40.106	41.573	1.00	96.95	C
ATOM	3942	C	ALA	C	159	53.122	39.632	40.516	1.00	98.61	C
ATOM	3943	O	ALA	C	159	54.207	40.262	40.533	1.00	99.08	C
ATOM	3944	OXT	ALA	C	159	53.033	38.381	40.563	1.00	99.74	C
ATOM	3945	CB	TRP	D	1	40.035	25.986	23.980	1.00	47.90	D
ATOM	3946	CG	TRP	D	1	40.800	26.022	25.278	1.00	47.18	D
ATOM	3947	CD2	TRP	D	1	40.998	24.931	26.191	1.00	43.81	D
ATOM	3948	CE2	TRP	D	1	41.717	25.433	27.294	1.00	34.36	D
ATOM	3949	CE3	TRP	D	1	40.634	23.576	26.183	1.00	39.41	D
ATOM	3950	CD1	TRP	D	1	41.397	27.106	25.850	1.00	49.03	D
ATOM	3951	NE1	TRP	D	1	41.950	26.762	27.064	1.00	45.66	D
ATOM	3952	CZ2	TRP	D	1	42.075	24.634	28.373	1.00	38.80	D
ATOM	3953	CZ3	TRP	D	1	40.990	22.784	27.255	1.00	47.33	D
ATOM	3954	CH2	TRP	D	1	41.703	23.315	28.335	1.00	43.10	D
ATOM	3955	C	TRP	D	1	40.470	28.210	22.983	1.00	50.51	D
ATOM	3956	O	TRP	D	1	41.393	29.007	23.021	1.00	50.28	D
ATOM	3957	N	TRP	D	1	42.185	26.447	22.876	1.00	53.94	D
ATOM	3958	CA	TRP	D	1	40.727	26.727	22.843	1.00	49.04	D
ATOM	3959	N	THR	D	2	39.202	28.579	23.037	1.00	53.81	D

ATOM	3960	CA	THR	D	2	38.846	29.973	23.213	1.00	53.60	D
ATOM	3961	CB	THR	D	2	38.488	30.641	21.903	1.00	53.95	D
ATOM	3962	OG1	THR	D	2	37.663	29.767	21.116	1.00	53.49	D
ATOM	3963	CG2	THR	D	2	39.760	31.007	21.166	1.00	51.45	D
ATOM	3964	C	THR	D	2	37.702	30.128	24.202	1.00	52.19	D
ATOM	3965	O	THR	D	2	36.733	29.356	24.215	1.00	52.84	D
ATOM	3966	N	TYR	D	3	37.835	31.147	25.039	1.00	55.28	D
ATOM	3967	CA	TYR	D	3	36.869	31.410	26.084	1.00	60.05	D
ATOM	3968	CB	TYR	D	3	37.599	31.959	27.313	1.00	56.84	D
ATOM	3969	CG	TYR	D	3	38.790	31.137	27.756	1.00	49.96	D
ATOM	3970	CD1	TYR	D	3	38.638	29.814	28.159	1.00	56.09	D
ATOM	3971	CE1	TYR	D	3	39.738	29.060	28.573	1.00	55.87	D
ATOM	3972	CD2	TYR	D	3	40.072	31.688	27.773	1.00	48.64	D
ATOM	3973	CE2	TYR	D	3	41.177	30.945	28.180	1.00	42.04	D
ATOM	3974	CZ	TYR	D	3	41.007	29.634	28.581	1.00	47.15	D
ATOM	3975	OH	TYR	D	3	42.095	28.896	29.001	1.00	54.23	D
ATOM	3976	C	TYR	D	3	35.748	32.360	25.683	1.00	61.29	D
ATOM	3977	O	TYR	D	3	35.918	33.255	24.848	1.00	54.78	D
ATOM	3978	N	HIS	D	4	34.595	32.134	26.300	1.00	65.30	D
ATOM	3979	CA	HIS	D	4	33.406	32.930	26.078	1.00	70.73	D
ATOM	3980	CB	HIS	D	4	32.623	32.366	24.895	1.00	66.87	D
ATOM	3981	CG	HIS	D	4	33.494	31.957	23.751	1.00	66.29	D
ATOM	3982	CD2	HIS	D	4	33.832	30.733	23.282	1.00	63.52	D
ATOM	3983	ND1	HIS	D	4	34.206	32.865	22.998	1.00	61.98	D
ATOM	3984	CE1	HIS	D	4	34.947	32.219	22.117	1.00	63.42	D
ATOM	3985	NE2	HIS	D	4	34.739	30.924	22.269	1.00	66.93	D
ATOM	3986	C	HIS	D	4	32.621	32.783	27.378	1.00	72.79	D
ATOM	3987	O	HIS	D	4	32.442	31.673	27.884	1.00	71.92	D
ATOM	3988	N	TYR	D	5	32.186	33.911	27.928	1.00	73.24	D
ATOM	3989	CA	TYR	D	5	31.437	33.942	29.175	1.00	76.16	D
ATOM	3990	CB	TYR	D	5	32.063	34.970	30.119	1.00	69.32	D
ATOM	3991	CG	TYR	D	5	32.012	36.407	29.607	1.00	63.08	D
ATOM	3992	CD1	TYR	D	5	32.126	36.699	28.240	1.00	63.87	D
ATOM	3993	CE1	TYR	D	5	32.069	38.022	27.769	1.00	63.03	D
ATOM	3994	CD2	TYR	D	5	31.843	37.478	30.487	1.00	66.80	D
ATOM	3995	CE2	TYR	D	5	31.784	38.797	30.021	1.00	61.15	D
ATOM	3996	CZ	TYR	D	5	31.898	39.063	28.669	1.00	64.83	D
ATOM	3997	OH	TYR	D	5	31.838	40.364	28.221	1.00	68.65	D
ATOM	3998	C	TYR	D	5	30.013	34.343	28.849	1.00	80.15	D
ATOM	3999	O	TYR	D	5	29.731	34.767	27.725	1.00	77.43	D
ATOM	4000	N	SER	D	6	29.120	34.219	29.827	1.00	82.81	D
ATOM	4001	CA	SER	D	6	27.715	34.578	29.633	1.00	85.71	D
ATOM	4002	CB	SER	D	6	26.808	33.453	30.128	1.00	83.27	D
ATOM	4003	OG	SER	D	6	26.914	33.302	31.532	1.00	91.20	D
ATOM	4004	C	SER	D	6	27.388	35.850	30.401	1.00	86.99	D
ATOM	4005	O	SER	D	6	27.427	35.852	31.627	1.00	88.36	D
ATOM	4006	N	THR	D	7	27.055	36.922	29.682	1.00	88.10	D
ATOM	4007	CA	THR	D	7	26.734	38.207	30.310	1.00	86.64	D
ATOM	4008	CB	THR	D	7	26.503	39.315	29.252	1.00	85.61	D
ATOM	4009	OG1	THR	D	7	25.840	38.762	28.108	1.00	86.99	D
ATOM	4010	CG2	THR	D	7	27.821	39.928	28.826	1.00	87.00	D
ATOM	4011	C	THR	D	7	25.513	38.152	31.218	1.00	85.75	D
ATOM	4012	O	THR	D	7	24.939	39.192	31.545	1.00	87.04	D
ATOM	4013	N	LYS	D	8	25.135	36.939	31.628	1.00	83.82	D
ATOM	4014	CA	LYS	D	8	23.979	36.707	32.499	1.00	84.36	D
ATOM	4015	CB	LYS	D	8	22.863	36.054	31.684	1.00	88.52	D
ATOM	4016	CG	LYS	D	8	22.656	36.735	30.327	1.00	94.79	D
ATOM	4017	CD	LYS	D	8	22.228	38.206	30.504	1.00	93.52	D
ATOM	4018	CE	LYS	D	8	22.263	39.027	29.196	1.00	93.41	D
ATOM	4019	NZ	LYS	D	8	23.553	39.764	28.970	1.00	89.48	D
ATOM	4020	C	LYS	D	8	24.384	35.804	33.663	1.00	83.58	D
ATOM	4021	O	LYS	D	8	25.575	35.596	33.894	1.00	84.57	D
ATOM	4022	N	ALA	D	9	23.406	35.278	34.400	1.00	79.51	D
ATOM	4023	CA	ALA	D	9	23.697	34.386	35.535	1.00	78.84	D
ATOM	4024	CB	ALA	D	9	23.483	35.118	36.877	1.00	75.98	D
ATOM	4025	C	ALA	D	9	22.819	33.144	35.483	1.00	80.35	D

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ATOM	4026	O	ALA	D	9	21.606	33.246	35.342	1.00	85.48	D
ATOM	4027	N	TYR	D	10	23.427	31.971	35.604	1.00	80.68	D
ATOM	4028	CA	TYR	D	10	22.670	30.724	35.563	1.00	84.17	D
ATOM	4029	CB	TYR	D	10	22.712	30.135	34.152	1.00	91.85	D
ATOM	4030	CG	TYR	D	10	22.088	31.021	33.102	1.00	101.02	D
ATOM	4031	CD1	TYR	D	10	20.701	31.165	33.019	1.00	106.08	D
ATOM	4032	CE1	TYR	D	10	20.115	31.996	32.056	1.00	107.36	D
ATOM	4033	CD2	TYR	D	10	22.883	31.732	32.198	1.00	102.92	D
ATOM	4034	CE2	TYR	D	10	22.309	32.570	31.232	1.00	105.88	D
ATOM	4035	CZ	TYR	D	10	20.923	32.696	31.167	1.00	105.85	D
ATOM	4036	OH	TYR	D	10	20.343	33.520	30.227	1.00	105.05	D
ATOM	4037	C	TYR	D	10	23.229	29.707	36.546	1.00	82.98	D
ATOM	4038	O	TYR	D	10	24.309	29.897	37.103	1.00	87.05	D
ATOM	4039	N	SER	D	11	22.486	28.628	36.763	1.00	82.13	D
ATOM	4040	CA	SER	D	11	22.937	27.578	37.662	1.00	82.65	D
ATOM	4041	CB	SER	D	11	21.756	26.755	38.163	1.00	77.40	D
ATOM	4042	OG	SER	D	11	21.150	26.055	37.095	1.00	74.52	D
ATOM	4043	C	SER	D	11	23.881	26.686	36.865	1.00	82.98	D
ATOM	4044	O	SER	D	11	23.954	26.793	35.640	1.00	83.59	D
ATOM	4045	N	TRP	D	12	24.596	25.805	37.558	1.00	84.82	D
ATOM	4046	CA	TRP	D	12	25.548	24.905	36.912	1.00	84.52	D
ATOM	4047	CB	TRP	D	12	26.084	23.899	37.931	1.00	81.99	D
ATOM	4048	CG	TRP	D	12	27.300	23.172	37.453	1.00	79.81	D
ATOM	4049	CD2	TRP	D	12	27.332	21.973	36.669	1.00	77.76	D
ATOM	4050	CE2	TRP	D	12	28.689	21.677	36.416	1.00	77.79	D
ATOM	4051	CE3	TRP	D	12	26.347	21.122	36.153	1.00	76.37	D
ATOM	4052	CD1	TRP	D	12	28.598	23.542	37.640	1.00	77.23	D
ATOM	4053	NE1	TRP	D	12	29.440	22.648	37.022	1.00	78.62	D
ATOM	4054	CZ2	TRP	D	12	29.089	20.566	35.670	1.00	73.00	D
ATOM	4055	CZ3	TRP	D	12	26.747	20.010	35.408	1.00	71.74	D
ATOM	4056	CH2	TRP	D	12	28.109	19.746	35.176	1.00	72.26	D
ATOM	4057	C	TRP	D	12	24.957	24.140	35.719	1.00	86.28	D
ATOM	4058	O	TRP	D	12	25.679	23.796	34.778	1.00	87.89	D
ATOM	4059	N	ASN	D	13	23.651	23.877	35.760	1.00	86.11	D
ATOM	4060	CA	ASN	D	13	22.987	23.139	34.689	1.00	84.97	D
ATOM	4061	CB	ASN	D	13	21.824	22.334	35.259	1.00	83.01	D
ATOM	4062	CG	ASN	D	13	22.283	21.293	36.252	1.00	83.07	D
ATOM	4063	OD1	ASN	D	13	23.088	20.415	35.926	1.00	81.85	D
ATOM	4064	ND2	ASN	D	13	21.777	21.387	37.476	1.00	86.01	D
ATOM	4065	C	ASN	D	13	22.508	23.988	33.513	1.00	85.49	D
ATOM	4066	O	ASN	D	13	22.530	23.526	32.372	1.00	84.55	D
ATOM	4067	N	ILE	D	14	22.053	25.211	33.776	1.00	84.87	D
ATOM	4068	CA	ILE	D	14	21.628	26.071	32.675	1.00	86.70	D
ATOM	4069	CB	ILE	D	14	20.753	27.277	33.134	1.00	85.56	D
ATOM	4070	CG2	ILE	D	14	20.432	28.170	31.939	1.00	81.64	D
ATOM	4071	CG1	ILE	D	14	19.439	26.781	33.743	1.00	89.01	D
ATOM	4072	CD1	ILE	D	14	18.506	27.891	34.193	1.00	86.35	D
ATOM	4073	C	ILE	D	14	22.929	26.591	32.083	1.00	86.58	D
ATOM	4074	O	ILE	D	14	23.095	26.635	30.862	1.00	87.39	D
ATOM	4075	N	SER	D	15	23.857	26.970	32.960	1.00	84.87	D
ATOM	4076	CA	SER	D	15	25.155	27.458	32.523	1.00	82.95	D
ATOM	4077	CB	SER	D	15	26.125	27.563	33.700	1.00	84.98	D
ATOM	4078	OG	SER	D	15	25.658	28.475	34.672	1.00	77.47	D
ATOM	4079	C	SER	D	15	25.703	26.449	31.525	1.00	80.88	D
ATOM	4080	O	SER	D	15	25.864	26.756	30.345	1.00	79.64	D
ATOM	4081	N	ARG	D	16	25.958	25.232	32.003	1.00	76.71	D
ATOM	4082	CA	ARG	D	16	26.509	24.171	31.161	1.00	74.95	D
ATOM	4083	CB	ARG	D	16	26.507	22.838	31.896	1.00	71.46	D
ATOM	4084	CG	ARG	D	16	27.200	21.785	31.082	1.00	69.10	D
ATOM	4085	CD	ARG	D	16	27.308	20.484	31.806	1.00	62.53	D
ATOM	4086	NE	ARG	D	16	28.399	19.697	31.245	1.00	60.43	D
ATOM	4087	CZ	ARG	D	16	28.577	18.403	31.474	1.00	63.67	D
ATOM	4088	NH1	ARG	D	16	27.726	17.746	32.257	1.00	63.54	D
ATOM	4089	NH2	ARG	D	16	29.604	17.766	30.921	1.00	58.60	D
ATOM	4090	C	ARG	D	16	25.830	23.970	29.816	1.00	78.87	D
ATOM	4091	O	ARG	D	16	26.500	23.818	28.798	1.00	78.10	D

ATOM	4092	N	LYS	D	17	24.504	23.934	29.811	1.00	81.45	D
ATOM	4093	CA	LYS	D	17	23.787	23.758	28.563	1.00	80.13	D
ATOM	4094	CB	LYS	D	17	22.278	23.784	28.820	1.00	82.85	D
ATOM	4095	CG	LYS	D	17	21.426	23.266	27.670	1.00	82.61	D
ATOM	4096	CD	LYS	D	17	21.830	21.863	27.243	1.00	81.71	D
ATOM	4097	CE	LYS	D	17	21.540	20.825	28.315	1.00	82.59	D
ATOM	4098	NZ	LYS	D	17	22.183	19.515	27.981	1.00	81.25	D
ATOM	4099	C	LYS	D	17	24.223	24.913	27.657	1.00	77.48	D
ATOM	4100	O	LYS	D	17	24.782	24.693	26.580	1.00	76.25	D
ATOM	4101	N	TYR	D	18	24.005	26.142	28.118	1.00	73.89	D
ATOM	4102	CA	TYR	D	18	24.381	27.337	27.361	1.00	75.49	D
ATOM	4103	CB	TYR	D	18	24.153	28.589	28.237	1.00	73.80	D
ATOM	4104	CG	TYR	D	18	24.850	29.870	27.792	1.00	75.15	D
ATOM	4105	CD1	TYR	D	18	26.202	30.071	28.055	1.00	74.41	D
ATOM	4106	CE1	TYR	D	18	26.852	31.237	27.662	1.00	72.43	D
ATOM	4107	CD2	TYR	D	18	24.160	30.877	27.122	1.00	71.41	D
ATOM	4108	CE2	TYR	D	18	24.805	32.051	26.727	1.00	65.12	D
ATOM	4109	CZ	TYR	D	18	26.154	32.219	27.001	1.00	67.02	D
ATOM	4110	OH	TYR	D	18	26.832	33.350	26.612	1.00	61.62	D
ATOM	4111	C	TYR	D	18	25.812	27.310	26.787	1.00	77.50	D
ATOM	4112	O	TYR	D	18	26.125	28.096	25.892	1.00	80.68	D
ATOM	4113	N	CYS	D	19	26.677	26.430	27.296	1.00	75.83	D
ATOM	4114	CA	CYS	D	19	28.043	26.321	26.766	1.00	74.31	D
ATOM	4115	C	CYS	D	19	28.058	25.188	25.765	1.00	71.85	D
ATOM	4116	O	CYS	D	19	28.728	25.265	24.748	1.00	67.03	D
ATOM	4117	CB	CYS	D	19	29.084	25.960	27.837	1.00	76.06	D
ATOM	4118	SG	CYS	D	19	29.757	27.270	28.901	1.00	72.96	D
ATOM	4119	N	GLN	D	20	27.332	24.122	26.080	1.00	66.05	D
ATOM	4120	CA	GLN	D	20	27.284	22.945	25.223	1.00	69.23	D
ATOM	4121	CB	GLN	D	20	26.532	21.810	25.924	1.00	67.27	D
ATOM	4122	CG	GLN	D	20	27.126	21.356	27.234	1.00	72.70	D
ATOM	4123	CD	GLN	D	20	26.299	20.270	27.883	1.00	73.43	D
ATOM	4124	OE1	GLN	D	20	25.143	20.486	28.259	1.00	74.77	D
ATOM	4125	NE2	GLN	D	20	26.886	19.086	28.012	1.00	72.80	D
ATOM	4126	C	GLN	D	20	26.604	23.256	23.900	1.00	71.09	D
ATOM	4127	O	GLN	D	20	26.896	22.641	22.867	1.00	73.99	D
ATOM	4128	N	ASN	D	21	25.689	24.215	23.942	1.00	70.62	D
ATOM	4129	CA	ASN	D	21	24.950	24.604	22.756	1.00	74.92	D
ATOM	4130	CB	ASN	D	21	23.691	25.380	23.154	1.00	77.14	D
ATOM	4131	CG	ASN	D	21	22.725	24.553	23.998	1.00	75.44	D
ATOM	4132	OD1	ASN	D	21	21.718	25.070	24.480	1.00	77.31	D
ATOM	4133	ND2	ASN	D	21	23.025	23.266	24.176	1.00	69.75	D
ATOM	4134	C	ASN	D	21	25.811	25.457	21.840	1.00	73.87	D
ATOM	4135	O	ASN	D	21	26.386	24.965	20.868	1.00	74.51	D
ATOM	4136	N	ARG	D	22	25.898	26.740	22.166	1.00	73.84	D
ATOM	4137	CA	ARG	D	22	26.668	27.700	21.388	1.00	76.46	D
ATOM	4138	CB	ARG	D	22	26.455	29.103	21.970	1.00	77.54	D
ATOM	4139	CG	ARG	D	22	25.288	29.193	22.948	1.00	81.70	D
ATOM	4140	CD	ARG	D	22	25.552	30.228	24.031	1.00	79.35	D
ATOM	4141	NE	ARG	D	22	25.253	31.594	23.608	1.00	85.33	D
ATOM	4142	CZ	ARG	D	22	24.030	32.126	23.591	1.00	88.55	D
ATOM	4143	NH1	ARG	D	22	22.981	31.401	23.975	1.00	94.08	D
ATOM	4144	NH2	ARG	D	22	23.852	33.388	23.206	1.00	86.81	D
ATOM	4145	C	ARG	D	22	28.177	27.383	21.343	1.00	78.17	D
ATOM	4146	O	ARG	D	22	28.881	27.801	20.417	1.00	78.45	D
ATOM	4147	N	TYR	D	23	28.670	26.644	22.335	1.00	77.07	D
ATOM	4148	CA	TYR	D	23	30.093	26.308	22.396	1.00	68.24	D
ATOM	4149	CB	TYR	D	23	30.741	27.115	23.517	1.00	64.34	D
ATOM	4150	CG	TYR	D	23	30.547	28.594	23.333	1.00	63.76	D
ATOM	4151	CD1	TYR	D	23	30.955	29.217	22.157	1.00	66.56	D
ATOM	4152	CE1	TYR	D	23	30.764	30.582	21.952	1.00	62.13	D
ATOM	4153	CD2	TYR	D	23	29.940	29.372	24.314	1.00	62.84	D
ATOM	4154	CE2	TYR	D	23	29.746	30.747	24.120	1.00	59.17	D
ATOM	4155	CZ	TYR	D	23	30.163	31.343	22.930	1.00	62.85	D
ATOM	4156	OH	TYR	D	23	29.994	32.692	22.708	1.00	64.77	D
ATOM	4157	C	TYR	D	23	30.408	24.819	22.566	1.00	64.49	D

ATOM	4158	O	TYR	D	23	29.649	23.953	22.124	1.00	64.04	D
ATOM	4159	N	THR	D	24	31.534	24.525	23.204	1.00	62.04	D
ATOM	4160	CA	THR	D	24	31.942	23.147	23.410	1.00	61.66	D
ATOM	4161	CB	THR	D	24	33.437	23.004	23.277	1.00	65.19	D
ATOM	4162	OG1	THR	D	24	33.887	23.844	22.213	1.00	59.30	D
ATOM	4163	CG2	THR	D	24	33.802	21.563	22.981	1.00	63.56	D
ATOM	4164	C	THR	D	24	31.568	22.644	24.784	1.00	64.56	D
ATOM	4165	O	THR	D	24	31.077	21.525	24.926	1.00	61.24	D
ATOM	4166	N	ASP	D	25	31.814	23.472	25.796	1.00	65.23	D
ATOM	4167	CA	ASP	D	25	31.517	23.102	27.174	1.00	66.97	D
ATOM	4168	CB	ASP	D	25	32.237	21.795	27.512	1.00	64.78	D
ATOM	4169	CG	ASP	D	25	31.459	20.934	28.468	1.00	65.57	D
ATOM	4170	OD1	ASP	D	25	31.175	21.395	29.594	1.00	67.14	D
ATOM	4171	OD2	ASP	D	25	31.132	19.791	28.085	1.00	65.47	D
ATOM	4172	C	ASP	D	25	31.949	24.192	28.156	1.00	69.22	D
ATOM	4173	O	ASP	D	25	32.100	25.358	27.791	1.00	73.40	D
ATOM	4174	N	LEU	D	26	32.138	23.799	29.410	1.00	69.64	D
ATOM	4175	CA	LEU	D	26	32.570	24.721	30.449	1.00	66.85	D
ATOM	4176	CB	LEU	D	26	31.915	24.364	31.776	1.00	68.56	D
ATOM	4177	CG	LEU	D	26	30.492	24.866	31.955	1.00	67.16	D
ATOM	4178	CD1	LEU	D	26	29.937	24.362	33.267	1.00	70.86	D
ATOM	4179	CD2	LEU	D	26	30.495	26.377	31.923	1.00	59.50	D
ATOM	4180	C	LEU	D	26	34.084	24.662	30.592	1.00	63.34	D
ATOM	4181	O	LEU	D	26	34.683	23.583	30.542	1.00	60.28	D
ATOM	4182	N	VAL	D	27	34.693	25.827	30.790	1.00	63.01	D
ATOM	4183	CA	VAL	D	27	36.140	25.926	30.913	1.00	64.56	D
ATOM	4184	CB	VAL	D	27	36.579	27.211	31.633	1.00	64.42	D
ATOM	4185	CG1	VAL	D	27	36.363	28.386	30.735	1.00	65.82	D
ATOM	4186	CG2	VAL	D	27	35.818	27.376	32.924	1.00	68.71	D
ATOM	4187	C	VAL	D	27	36.828	24.779	31.615	1.00	64.43	D
ATOM	4188	O	VAL	D	27	36.393	24.323	32.672	1.00	65.51	D
ATOM	4189	N	ALA	D	28	37.902	24.308	30.992	1.00	62.13	D
ATOM	4190	CA	ALA	D	28	38.727	23.260	31.557	1.00	62.44	D
ATOM	4191	CB	ALA	D	28	39.029	22.196	30.538	1.00	51.97	D
ATOM	4192	C	ALA	D	28	39.976	24.043	31.871	1.00	60.94	D
ATOM	4193	O	ALA	D	28	40.595	24.612	30.981	1.00	57.30	D
ATOM	4194	N	ILE	D	29	40.318	24.134	33.143	1.00	60.75	D
ATOM	4195	CA	ILE	D	29	41.514	24.858	33.501	1.00	58.84	D
ATOM	4196	CB	ILE	D	29	41.348	25.591	34.842	1.00	56.61	D
ATOM	4197	CG2	ILE	D	29	42.705	26.117	35.331	1.00	57.07	D
ATOM	4198	CG1	ILE	D	29	40.309	26.705	34.662	1.00	56.40	D
ATOM	4199	CD1	ILE	D	29	40.227	27.688	35.793	1.00	49.31	D
ATOM	4200	C	ILE	D	29	42.602	23.817	33.583	1.00	59.08	D
ATOM	4201	O	ILE	D	29	42.331	22.674	33.960	1.00	57.85	D
ATOM	4202	N	GLN	D	30	43.823	24.183	33.202	1.00	60.18	D
ATOM	4203	CA	GLN	D	30	44.889	23.208	33.257	1.00	58.99	D
ATOM	4204	CB	GLN	D	30	44.911	22.397	31.970	1.00	56.07	D
ATOM	4205	CG	GLN	D	30	45.280	23.177	30.746	1.00	59.20	D
ATOM	4206	CD	GLN	D	30	45.204	22.321	29.511	1.00	57.54	D
ATOM	4207	OE1	GLN	D	30	45.591	21.157	29.526	1.00	51.20	D
ATOM	4208	NE2	GLN	D	30	44.709	22.889	28.431	1.00	42.95	D
ATOM	4209	C	GLN	D	30	46.277	23.724	33.574	1.00	52.97	D
ATOM	4210	O	GLN	D	30	47.232	22.959	33.571	1.00	48.56	D
ATOM	4211	N	ASN	D	31	46.405	25.014	33.838	1.00	48.52	D
ATOM	4212	CA	ASN	D	31	47.705	25.543	34.222	1.00	50.76	D
ATOM	4213	CB	ASN	D	31	48.751	25.325	33.117	1.00	44.62	D
ATOM	4214	CG	ASN	D	31	48.504	26.175	31.872	1.00	56.05	D
ATOM	4215	OD1	ASN	D	31	48.325	27.405	31.960	1.00	50.70	D
ATOM	4216	ND2	ASN	D	31	48.519	25.526	30.694	1.00	49.02	D
ATOM	4217	C	ASN	D	31	47.662	27.004	34.660	1.00	54.16	D
ATOM	4218	O	ASN	D	31	47.087	27.860	33.986	1.00	52.33	D
ATOM	4219	N	LYS	D	32	48.263	27.268	35.816	1.00	57.40	D
ATOM	4220	CA	LYS	D	32	48.296	28.603	36.392	1.00	59.69	D
ATOM	4221	CB	LYS	D	32	49.510	28.739	37.305	1.00	60.15	D
ATOM	4222	CG	LYS	D	32	49.302	28.144	38.683	1.00	67.13	D
ATOM	4223	CD	LYS	D	32	48.273	28.948	39.458	1.00	71.41	D

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ATOM	4224	CE	LYS	D	32	47.991	28.325	40.811	1.00	69.47	D
ATOM	4225	NZ	LYS	D	32	47.422	26.959	40.657	1.00	69.03	D
ATOM	4226	C	LYS	D	32	48.269	29.757	35.398	1.00	62.38	D
ATOM	4227	O	LYS	D	32	47.651	30.787	35.666	1.00	63.13	D
ATOM	4228	N	ASN	D	33	48.939	29.599	34.261	1.00	58.58	D
ATOM	4229	CA	ASN	D	33	48.942	30.664	33.267	1.00	55.06	D
ATOM	4230	CB	ASN	D	33	49.845	30.298	32.081	1.00	57.79	D
ATOM	4231	CG	ASN	D	33	51.190	31.014	32.126	1.00	56.51	D
ATOM	4232	OD1	ASN	D	33	51.270	32.174	32.538	1.00	61.11	D
ATOM	4233	ND2	ASN	D	33	52.247	30.334	31.688	1.00	61.22	D
ATOM	4234	C	ASN	D	33	47.523	30.959	32.776	1.00	52.53	D
ATOM	4235	O	ASN	D	33	47.131	32.118	32.604	1.00	48.85	D
ATOM	4236	N	GLU	D	34	46.748	29.909	32.554	1.00	49.66	D
ATOM	4237	CA	GLU	D	34	45.384	30.090	32.094	1.00	51.97	D
ATOM	4238	CB	GLU	D	34	44.752	28.733	31.813	1.00	49.39	D
ATOM	4239	CG	GLU	D	34	45.160	28.202	30.460	1.00	51.60	D
ATOM	4240	CD	GLU	D	34	44.560	26.858	30.147	1.00	55.86	D
ATOM	4241	OE1	GLU	D	34	43.429	26.583	30.620	1.00	51.27	D
ATOM	4242	OE2	GLU	D	34	45.221	26.088	29.412	1.00	60.46	D
ATOM	4243	C	GLU	D	34	44.551	30.873	33.097	1.00	54.25	D
ATOM	4244	O	GLU	D	34	43.897	31.860	32.754	1.00	55.92	D
ATOM	4245	N	ILE	D	35	44.581	30.429	34.345	1.00	55.63	D
ATOM	4246	CA	ILE	D	35	43.833	31.104	35.388	1.00	53.89	D
ATOM	4247	CB	ILE	D	35	44.099	30.459	36.745	1.00	55.00	D
ATOM	4248	CG2	ILE	D	35	43.330	31.188	37.833	1.00	57.27	D
ATOM	4249	CG1	ILE	D	35	43.709	28.984	36.656	1.00	54.16	D
ATOM	4250	CD1	ILE	D	35	43.850	28.219	37.924	1.00	63.33	D
ATOM	4251	C	ILE	D	35	44.272	32.551	35.390	1.00	57.07	D
ATOM	4252	O	ILE	D	35	43.453	33.456	35.235	1.00	54.77	D
ATOM	4253	N	ASP	D	36	45.573	32.762	35.545	1.00	57.98	D
ATOM	4254	CA	ASP	D	36	46.105	34.108	35.539	1.00	57.22	D
ATOM	4255	CB	ASP	D	36	47.623	34.096	35.309	1.00	58.03	D
ATOM	4256	CG	ASP	D	36	48.256	35.487	35.399	1.00	57.37	D
ATOM	4257	OD1	ASP	D	36	47.791	36.422	34.715	1.00	61.70	D
ATOM	4258	OD2	ASP	D	36	49.237	35.640	36.151	1.00	63.47	D
ATOM	4259	C	ASP	D	36	45.413	34.756	34.367	1.00	62.98	D
ATOM	4260	O	ASP	D	36	44.843	35.828	34.506	1.00	65.55	D
ATOM	4261	N	TYR	D	37	45.418	34.071	33.226	1.00	63.34	D
ATOM	4262	CA	TYR	D	37	44.804	34.609	32.016	1.00	65.26	D
ATOM	4263	CB	TYR	D	37	45.007	33.657	30.839	1.00	64.47	D
ATOM	4264	CG	TYR	D	37	44.355	34.150	29.564	1.00	60.54	D
ATOM	4265	CD1	TYR	D	37	44.771	35.333	28.949	1.00	57.45	D
ATOM	4266	CE1	TYR	D	37	44.160	35.789	27.790	1.00	59.89	D
ATOM	4267	CD2	TYR	D	37	43.308	33.442	28.981	1.00	63.25	D
ATOM	4268	CE2	TYR	D	37	42.690	33.893	27.824	1.00	64.67	D
ATOM	4269	CZ	TYR	D	37	43.119	35.061	27.239	1.00	61.08	D
ATOM	4270	OH	TYR	D	37	42.483	35.499	26.109	1.00	62.19	D
ATOM	4271	C	TYR	D	37	43.320	34.961	32.118	1.00	63.91	D
ATOM	4272	O	TYR	D	37	42.946	36.126	31.962	1.00	58.91	D
ATOM	4273	N	LEU	D	38	42.473	33.962	32.349	1.00	58.62	D
ATOM	4274	CA	LEU	D	38	41.042	34.214	32.468	1.00	58.97	D
ATOM	4275	CB	LEU	D	38	40.342	33.015	33.092	1.00	56.00	D
ATOM	4276	CG	LEU	D	38	40.140	31.771	32.244	1.00	54.41	D
ATOM	4277	CD1	LEU	D	38	39.770	30.633	33.155	1.00	55.61	D
ATOM	4278	CD2	LEU	D	38	39.057	32.007	31.208	1.00	52.61	D
ATOM	4279	C	LEU	D	38	40.818	35.426	33.358	1.00	63.75	D
ATOM	4280	O	LEU	D	38	40.231	36.422	32.952	1.00	61.83	D
ATOM	4281	N	ASN	D	39	41.309	35.330	34.579	1.00	65.37	D
ATOM	4282	CA	ASN	D	39	41.171	36.388	35.549	1.00	65.39	D
ATOM	4283	CB	ASN	D	39	42.056	36.074	36.744	1.00	66.27	D
ATOM	4284	CG	ASN	D	39	41.864	37.049	37.881	1.00	66.15	D
ATOM	4285	OD1	ASN	D	39	40.842	37.021	38.573	1.00	63.91	D
ATOM	4286	ND2	ASN	D	39	42.845	37.930	38.078	1.00	66.96	D
ATOM	4287	C	ASN	D	39	41.489	37.793	35.047	1.00	68.44	D
ATOM	4288	O	ASN	D	39	41.403	38.747	35.814	1.00	71.15	D
ATOM	4289	N	LYS	D	40	41.869	37.951	33.785	1.00	67.97	D

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ATOM   4290  CA  LYS D  40      42.161  39.299  33.309  1.00 68.79      D
ATOM   4291  CB  LYS D  40      43.680  39.567  33.341  1.00 70.82      D
ATOM   4292  CG  LYS D  40      44.576  38.426  32.865  1.00 79.19      D
ATOM   4293  CD  LYS D  40      46.059  38.631  33.255  1.00 75.96      D
ATOM   4294  CE  LYS D  40      46.722  39.773  32.489  1.00 75.70      D
ATOM   4295  NZ  LYS D  40      48.189  39.890  32.767  1.00 71.29      D
ATOM   4296  C   LYS D  40      41.558  39.727  31.966  1.00 69.77      D
ATOM   4297  O   LYS D  40      41.591  40.912  31.625  1.00 65.12      D
ATOM   4298  N   VAL D  41      41.010  38.784  31.204  1.00 69.68      D
ATOM   4299  CA  VAL D  41      40.372  39.142  29.936  1.00 66.29      D
ATOM   4300  CB  VAL D  41      40.608  38.093  28.811  1.00 67.57      D
ATOM   4301  CG1 VAL D  41      41.766  38.527  27.932  1.00 69.07      D
ATOM   4302  CG2 VAL D  41      40.876  36.723  29.407  1.00 70.13      D
ATOM   4303  C   VAL D  41      38.880  39.237  30.209  1.00 65.64      D
ATOM   4304  O   VAL D  41      38.184  40.097  29.656  1.00 66.95      D
ATOM   4305  N   LEU D  42      38.403  38.342  31.073  1.00 66.84      D
ATOM   4306  CA  LEU D  42      37.003  38.309  31.471  1.00 73.75      D
ATOM   4307  CB  LEU D  42      36.712  37.088  32.345  1.00 70.69      D
ATOM   4308  CG  LEU D  42      36.565  35.688  31.752  1.00 71.75      D
ATOM   4309  CD1 LEU D  42      36.698  34.665  32.864  1.00 65.00      D
ATOM   4310  CD2 LEU D  42      35.226  35.553  31.051  1.00 75.08      D
ATOM   4311  C   LEU D  42      36.731  39.550  32.297  1.00 81.30      D
ATOM   4312  O   LEU D  42      37.656  40.202  32.780  1.00 84.30      D
ATOM   4313  N   PRO D  43      35.455  39.907  32.457  1.00 87.25      D
ATOM   4314  CD  PRO D  43      34.328  39.536  31.584  1.00 88.12      D
ATOM   4315  CA  PRO D  43      35.118  41.089  33.250  1.00 89.19      D
ATOM   4316  CB  PRO D  43      33.943  41.678  32.484  1.00 90.96      D
ATOM   4317  CG  PRO D  43      33.209  40.449  32.090  1.00 90.25      D
ATOM   4318  C   PRO D  43      34.731  40.665  34.676  1.00 89.52      D
ATOM   4319  O   PRO D  43      34.632  39.463  34.970  1.00 84.71      D
ATOM   4320  N   TYR D  44      34.520  41.650  35.552  1.00 90.60      D
ATOM   4321  CA  TYR D  44      34.135  41.372  36.932  1.00 90.85      D
ATOM   4322  CB  TYR D  44      34.634  42.474  37.877  1.00 94.27      D
ATOM   4323  CG  TYR D  44      34.154  42.278  39.304  1.00100.08      D
ATOM   4324  CD1 TYR D  44      34.286  41.038  39.934  1.00101.53      D
ATOM   4325  CE1 TYR D  44      33.831  40.834  41.243  1.00100.88      D
ATOM   4326  CD2 TYR D  44      33.554  43.321  40.019  1.00 99.48      D
ATOM   4327  CE2 TYR D  44      33.094  43.127  41.334  1.00100.40      D
ATOM   4328  CZ  TYR D  44      33.238  41.878  41.937  1.00100.82      D
ATOM   4329  OH  TYR D  44      32.803  41.655  43.229  1.00100.99      D
ATOM   4330  C   TYR D  44      32.621  41.235  37.078  1.00 87.74      D
ATOM   4331  O   TYR D  44      31.841  42.008  36.506  1.00 83.20      D
ATOM   4332  N   TYR D  45      32.213  40.238  37.850  1.00 85.83      D
ATOM   4333  CA  TYR D  45      30.804  39.992  38.088  1.00 87.61      D
ATOM   4334  CB  TYR D  45      30.246  38.991  37.067  1.00 87.77      D
ATOM   4335  CG  TYR D  45      29.921  39.587  35.712  1.00 88.21      D
ATOM   4336  CD1 TYR D  45      28.962  40.588  35.586  1.00 86.04      D
ATOM   4337  CE1 TYR D  45      28.635  41.120  34.337  1.00 87.25      D
ATOM   4338  CD2 TYR D  45      30.552  39.131  34.551  1.00 86.34      D
ATOM   4339  CE2 TYR D  45      30.232  39.657  33.299  1.00 86.34      D
ATOM   4340  CZ  TYR D  45      29.272  40.650  33.201  1.00 88.59      D
ATOM   4341  OH  TYR D  45      28.933  41.171  31.974  1.00 86.01      D
ATOM   4342  C   TYR D  45      30.635  39.451  39.494  1.00 87.74      D
ATOM   4343  O   TYR D  45      31.199  38.413  39.848  1.00 87.75      D
ATOM   4344  N   SER D  46      29.858  40.181  40.285  1.00 86.94      D
ATOM   4345  CA  SER D  46      29.564  39.836  41.671  1.00 85.82      D
ATOM   4346  CB  SER D  46      28.320  40.608  42.121  1.00 88.20      D
ATOM   4347  OG  SER D  46      27.217  40.324  41.273  1.00 95.33      D
ATOM   4348  C   SER D  46      29.350  38.335  41.925  1.00 85.42      D
ATOM   4349  O   SER D  46      29.959  37.749  42.835  1.00 86.71      D
ATOM   4350  N   SER D  47      28.475  37.725  41.127  1.00 83.12      D
ATOM   4351  CA  SER D  47      28.164  36.308  41.272  1.00 78.15      D
ATOM   4352  CB  SER D  47      26.911  35.960  40.455  1.00 77.23      D
ATOM   4353  OG  SER D  47      25.740  36.544  41.012  1.00 74.66      D
ATOM   4354  C   SER D  47      29.327  35.419  40.845  1.00 78.89      D
ATOM   4355  O   SER D  47      29.356  34.226  41.169  1.00 73.31      D
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ATOM   4356  N   TYR D  48      30.283  36.010  40.127  1.00 80.73      D
ATOM   4357  CA  TYR D  48      31.461  35.293  39.631  1.00 85.20      D
ATOM   4358  CB  TYR D  48      32.046  34.393  40.726  1.00 91.55      D
ATOM   4359  CG  TYR D  48      32.847  35.133  41.777  1.00 98.80      D
ATOM   4360  CD1 TYR D  48      33.967  35.893  41.420  1.00100.93      D
ATOM   4361  CE1 TYR D  48      34.745  36.545  42.389  1.00100.43      D
ATOM   4362  CD2 TYR D  48      32.516  35.043  43.133  1.00100.00      D
ATOM   4363  CE2 TYR D  48      33.286  35.688  44.112  1.00 98.09      D
ATOM   4364  CZ  TYR D  48      34.401  36.437  43.733  1.00 99.84      D
ATOM   4365  OH  TYR D  48      35.180  37.065  44.686  1.00 95.80      D
ATOM   4366  C   TYR D  48      31.126  34.452  38.398  1.00 83.43      D
ATOM   4367  O   TYR D  48      30.204  34.776  37.650  1.00 83.50      D
ATOM   4368  N   TYR D  49      31.883  33.381  38.178  1.00 78.55      D
ATOM   4369  CA  TYR D  49      31.640  32.511  37.037  1.00 71.37      D
ATOM   4370  CB  TYR D  49      32.654  32.746  35.914  1.00 64.40      D
ATOM   4371  CG  TYR D  49      32.727  34.126  35.280  1.00 50.85      D
ATOM   4372  CD1 TYR D  49      33.188  35.233  35.996  1.00 52.54      D
ATOM   4373  CE1 TYR D  49      33.391  36.477  35.368  1.00 52.17      D
ATOM   4374  CD2 TYR D  49      32.456  34.299  33.919  1.00 54.39      D
ATOM   4375  CE2 TYR D  49      32.654  35.534  33.285  1.00 48.31      D
ATOM   4376  CZ  TYR D  49      33.123  36.615  34.014  1.00 56.66      D
ATOM   4377  OH  TYR D  49      33.334  37.823  33.391  1.00 53.59      D
ATOM   4378  C   TYR D  49      31.796  31.069  37.485  1.00 71.55      D
ATOM   4379  O   TYR D  49      32.442  30.798  38.500  1.00 70.43      D
ATOM   4380  N   TRP D  50      31.213  30.150  36.716  1.00 74.73      D
ATOM   4381  CA  TRP D  50      31.303  28.717  36.992  1.00 79.27      D
ATOM   4382  CB  TRP D  50      30.004  27.983  36.634  1.00 87.21      D
ATOM   4383  CG  TRP D  50      28.848  28.173  37.549  1.00 98.72      D
ATOM   4384  CD2 TRP D  50      28.577  27.444  38.750  1.00100.25      D
ATOM   4385  CE2 TRP D  50      27.371  27.942  39.278  1.00102.94      D
ATOM   4386  CE3 TRP D  50      29.238  26.418  39.431  1.00101.65      D
ATOM   4387  CD1 TRP D  50      27.828  29.058  37.400  1.00100.25      D
ATOM   4388  NE1 TRP D  50      26.933  28.928  38.435  1.00101.78      D
ATOM   4389  CZ2 TRP D  50      26.811  27.449  40.456  1.00102.81      D
ATOM   4390  CZ3 TRP D  50      28.682  25.930  40.599  1.00102.63      D
ATOM   4391  CH2 TRP D  50      27.481  26.445  41.099  1.00103.89      D
ATOM   4392  C   TRP D  50      32.389  28.130  36.102  1.00 78.06      D
ATOM   4393  O   TRP D  50      32.630  28.635  35.005  1.00 75.57      D
ATOM   4394  N   ILE D  51      33.033  27.064  36.570  1.00 73.12      D
ATOM   4395  CA  ILE D  51      34.047  26.381  35.777  1.00 68.12      D
ATOM   4396  CB  ILE D  51      35.471  26.566  36.358  1.00 71.07      D
ATOM   4397  CG2 ILE D  51      35.671  28.013  36.783  1.00 64.66      D
ATOM   4398  CG1 ILE D  51      35.697  25.628  37.536  1.00 66.61      D
ATOM   4399  CD1 ILE D  51      37.121  25.617  38.020  1.00 69.13      D
ATOM   4400  C   ILE D  51      33.658  24.899  35.738  1.00 71.35      D
ATOM   4401  O   ILE D  51      33.291  24.310  36.752  1.00 69.44      D
ATOM   4402  N   GLY D  52      33.735  24.311  34.552  1.00 71.78      D
ATOM   4403  CA  GLY D  52      33.335  22.926  34.358  1.00 68.04      D
ATOM   4404  C   GLY D  52      34.094  21.754  34.957  1.00 71.78      D
ATOM   4405  O   GLY D  52      34.776  21.009  34.241  1.00 74.02      D
ATOM   4406  N   ILE D  53      33.959  21.572  36.266  1.00 72.01      D
ATOM   4407  CA  ILE D  53      34.603  20.460  36.955  1.00 75.36      D
ATOM   4408  CB  ILE D  53      35.943  20.884  37.607  1.00 70.35      D
ATOM   4409  CG2 ILE D  53      35.760  22.169  38.397  1.00 67.93      D
ATOM   4410  CG1 ILE D  53      36.460  19.751  38.493  1.00 67.47      D
ATOM   4411  CD1 ILE D  53      37.940  19.497  38.381  1.00 71.75      D
ATOM   4412  C   ILE D  53      33.647  19.932  38.024  1.00 78.89      D
ATOM   4413  O   ILE D  53      32.982  20.714  38.713  1.00 79.82      D
ATOM   4414  N   ARG D  54      33.562  18.609  38.144  1.00 81.08      D
ATOM   4415  CA  ARG D  54      32.680  17.985  39.129  1.00 85.28      D
ATOM   4416  CB  ARG D  54      31.315  17.695  38.509  1.00 83.85      D
ATOM   4417  CG  ARG D  54      30.617  18.924  37.980  1.00 85.22      D
ATOM   4418  CD  ARG D  54      30.125  19.854  39.087  1.00 85.80      D
ATOM   4419  NE  ARG D  54      29.005  19.300  39.852  1.00 94.98      D
ATOM   4420  CZ  ARG D  54      27.932  18.718  39.317  1.00 99.59      D
ATOM   4421  NH1 ARG D  54      27.819  18.594  38.003  1.00101.18      D
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ATOM	4422	NH2	ARG	D	54	26.955	18.275	40.099	1.00	100.34	D
ATOM	4423	C	ARG	D	54	33.265	16.690	39.679	1.00	91.24	D
ATOM	4424	O	ARG	D	54	33.659	15.799	38.922	1.00	92.89	D
ATOM	4425	N	LYS	D	55	33.309	16.586	41.004	1.00	94.39	D
ATOM	4426	CA	LYS	D	55	33.844	15.396	41.638	1.00	94.91	D
ATOM	4427	CB	LYS	D	55	33.655	15.471	43.154	1.00	96.60	D
ATOM	4428	CG	LYS	D	55	34.380	14.361	43.903	1.00	100.64	D
ATOM	4429	CD	LYS	D	55	34.154	14.450	45.401	1.00	101.77	D
ATOM	4430	CE	LYS	D	55	34.994	13.429	46.159	1.00	101.24	D
ATOM	4431	NZ	LYS	D	55	36.456	13.700	46.054	1.00	105.37	D
ATOM	4432	C	LYS	D	55	33.154	14.153	41.082	1.00	93.61	D
ATOM	4433	O	LYS	D	55	31.957	14.169	40.787	1.00	91.85	D
ATOM	4434	N	ASN	D	56	33.926	13.082	40.936	1.00	95.43	D
ATOM	4435	CA	ASN	D	56	33.415	11.821	40.409	1.00	100.93	D
ATOM	4436	CB	ASN	D	56	34.498	11.149	39.557	1.00	105.18	D
ATOM	4437	CG	ASN	D	56	33.990	9.921	38.823	1.00	109.88	D
ATOM	4438	OD1	ASN	D	56	33.568	8.937	39.437	1.00	110.38	D
ATOM	4439	ND2	ASN	D	56	34.029	9.973	37.496	1.00	109.44	D
ATOM	4440	C	ASN	D	56	32.977	10.875	41.531	1.00	104.23	D
ATOM	4441	O	ASN	D	56	31.874	11.004	42.080	1.00	104.55	D
ATOM	4442	N	ASN	D	57	33.857	9.924	41.851	1.00	103.44	D
ATOM	4443	CA	ASN	D	57	33.634	8.922	42.900	1.00	101.03	D
ATOM	4444	CB	ASN	D	57	34.220	7.574	42.450	1.00	98.05	D
ATOM	4445	CG	ASN	D	57	33.721	6.401	43.278	1.00	90.52	D
ATOM	4446	OD1	ASN	D	57	33.679	6.458	44.510	1.00	81.88	D
ATOM	4447	ND2	ASN	D	57	33.358	5.319	42.597	1.00	85.09	D
ATOM	4448	C	ASN	D	57	34.377	9.423	44.143	1.00	102.31	D
ATOM	4449	O	ASN	D	57	34.043	9.083	45.284	1.00	102.44	D
ATOM	4450	N	LYS	D	58	35.393	10.241	43.883	1.00	103.00	D
ATOM	4451	CA	LYS	D	58	36.235	10.838	44.909	1.00	101.55	D
ATOM	4452	CB	LYS	D	58	36.858	9.753	45.801	1.00	100.72	D
ATOM	4453	CG	LYS	D	58	36.534	9.901	47.289	1.00	97.43	D
ATOM	4454	CD	LYS	D	58	36.955	11.272	47.816	1.00	90.09	D
ATOM	4455	CE	LYS	D	58	36.462	11.497	49.238	1.00	90.96	D
ATOM	4456	NZ	LYS	D	58	36.682	12.898	49.704	1.00	87.52	D
ATOM	4457	C	LYS	D	58	37.334	11.620	44.188	1.00	98.61	D
ATOM	4458	O	LYS	D	58	38.192	12.246	44.820	1.00	97.77	D
ATOM	4459	N	THR	D	59	37.292	11.577	42.857	1.00	95.78	D
ATOM	4460	CA	THR	D	59	38.275	12.268	42.030	1.00	91.75	D
ATOM	4461	CB	THR	D	59	38.999	11.301	41.066	1.00	89.62	D
ATOM	4462	OG1	THR	D	59	39.617	10.246	41.813	1.00	90.88	D
ATOM	4463	CG2	THR	D	59	40.065	12.048	40.263	1.00	90.79	D
ATOM	4464	C	THR	D	59	37.627	13.346	41.183	1.00	90.51	D
ATOM	4465	O	THR	D	59	36.740	13.061	40.374	1.00	85.25	D
ATOM	4466	N	TRP	D	60	38.071	14.584	41.368	1.00	90.25	D
ATOM	4467	CA	TRP	D	60	37.534	15.682	40.585	1.00	92.40	D
ATOM	4468	CB	TRP	D	60	38.199	17.004	40.952	1.00	91.90	D
ATOM	4469	CG	TRP	D	60	37.687	17.546	42.228	1.00	95.94	D
ATOM	4470	CD2	TRP	D	60	36.528	18.366	42.398	1.00	96.22	D
ATOM	4471	CE2	TRP	D	60	36.374	18.590	43.782	1.00	96.55	D
ATOM	4472	CE3	TRP	D	60	35.601	18.932	41.515	1.00	95.52	D
ATOM	4473	CD1	TRP	D	60	38.179	17.312	43.475	1.00	95.72	D
ATOM	4474	NE1	TRP	D	60	37.396	17.935	44.417	1.00	98.64	D
ATOM	4475	CZ2	TRP	D	60	35.329	19.358	44.306	1.00	94.56	D
ATOM	4476	CZ3	TRP	D	60	34.562	19.695	42.033	1.00	90.97	D
ATOM	4477	CH2	TRP	D	60	34.436	19.901	43.417	1.00	92.27	D
ATOM	4478	C	TRP	D	60	37.792	15.365	39.135	1.00	91.89	D
ATOM	4479	O	TRP	D	60	38.396	14.343	38.821	1.00	91.74	D
ATOM	4480	N	THR	D	61	37.345	16.243	38.252	1.00	87.27	D
ATOM	4481	CA	THR	D	61	37.526	16.014	36.831	1.00	82.28	D
ATOM	4482	CB	THR	D	61	36.715	14.781	36.359	1.00	78.82	D
ATOM	4483	OG1	THR	D	61	37.167	13.614	37.057	1.00	71.78	D
ATOM	4484	CG2	THR	D	61	36.857	14.574	34.845	1.00	75.28	D
ATOM	4485	C	THR	D	61	37.026	17.213	36.061	1.00	81.44	D
ATOM	4486	O	THR	D	61	36.289	18.045	36.591	1.00	79.01	D
ATOM	4487	N	TRP	D	62	37.430	17.293	34.801	1.00	79.44	D

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ATOM   4488  CA  TRP D  62      36.995  18.374  33.936  1.00 76.50      D
ATOM   4489  CB  TRP D  62      38.205  18.982  33.217  1.00 72.62      D
ATOM   4490  CG  TRP D  62      39.148  19.726  34.144  1.00 67.80      D
ATOM   4491  CD2 TRP D  62      38.916  21.002  34.752  1.00 60.20      D
ATOM   4492  CE2 TRP D  62      40.061  21.317  35.513  1.00 56.99      D
ATOM   4493  CE3 TRP D  62      37.849  21.910  34.724  1.00 58.49      D
ATOM   4494  CD1 TRP D  62      40.391  19.329  34.554  1.00 58.33      D
ATOM   4495  NE1 TRP D  62      40.947  20.282  35.375  1.00 58.45      D
ATOM   4496  CZ2 TRP D  62      40.170  22.500  36.238  1.00 54.49      D
ATOM   4497  CZ3 TRP D  62      37.956  23.084  35.445  1.00 58.77      D
ATOM   4498  CH2 TRP D  62      39.110  23.369  36.192  1.00 59.62      D
ATOM   4499  C   TRP D  62      35.960  17.806  32.949  1.00 73.51      D
ATOM   4500  O   TRP D  62      36.224  16.826  32.232  1.00 63.60      D
ATOM   4501  N   VAL D  63      34.779  18.423  32.951  1.00 72.79      D
ATOM   4502  CA  VAL D  63      33.649  18.010  32.122  1.00 75.51      D
ATOM   4503  CB  VAL D  63      32.490  18.997  32.268  1.00 74.15      D
ATOM   4504  CG1 VAL D  63      31.854  18.842  33.628  1.00 72.97      D
ATOM   4505  CG2 VAL D  63      33.002  20.417  32.074  1.00 65.79      D
ATOM   4506  C   VAL D  63      33.904  17.823  30.635  1.00 78.75      D
ATOM   4507  O   VAL D  63      33.661  16.748  30.080  1.00 78.17      D
ATOM   4508  N   GLY D  64      34.365  18.879  29.981  1.00 78.38      D
ATOM   4509  CA  GLY D  64      34.617  18.782  28.559  1.00 75.40      D
ATOM   4510  C   GLY D  64      35.714  17.787  28.253  1.00 77.33      D
ATOM   4511  O   GLY D  64      35.466  16.755  27.616  1.00 76.45      D
ATOM   4512  N   THR D  65      36.921  18.106  28.732  1.00 77.53      D
ATOM   4513  CA  THR D  65      38.125  17.295  28.527  1.00 76.34      D
ATOM   4514  CB  THR D  65      39.393  18.018  29.083  1.00 76.08      D
ATOM   4515  OG1 THR D  65      39.247  18.267  30.484  1.00 75.54      D
ATOM   4516  CG2 THR D  65      39.601  19.343  28.375  1.00 76.00      D
ATOM   4517  C   THR D  65      38.078  15.873  29.089  1.00 76.58      D
ATOM   4518  O   THR D  65      38.772  14.991  28.576  1.00 71.21      D
ATOM   4519  N   LYS D  66      37.273  15.655  30.132  1.00 77.86      D
ATOM   4520  CA  LYS D  66      37.124  14.329  30.732  1.00 81.19      D
ATOM   4521  CB  LYS D  66      37.025  13.259  29.634  1.00 85.84      D
ATOM   4522  CG  LYS D  66      36.298  11.970  30.016  1.00 91.14      D
ATOM   4523  CD  LYS D  66      34.781  12.173  29.973  1.00 98.76      D
ATOM   4524  CE  LYS D  66      34.008  10.864  30.080  1.00 96.75      D
ATOM   4525  NZ  LYS D  66      32.536  11.102  30.041  1.00100.25      D
ATOM   4526  C   LYS D  66      38.310  14.003  31.615  1.00 81.69      D
ATOM   4527  O   LYS D  66      38.325  12.974  32.282  1.00 79.52      D
ATOM   4528  N   LYS D  67      39.309  14.880  31.599  1.00 81.47      D
ATOM   4529  CA  LYS D  67      40.529  14.689  32.387  1.00 79.92      D
ATOM   4530  CB  LYS D  67      41.662  15.611  31.887  1.00 82.10      D
ATOM   4531  CG  LYS D  67      42.138  15.395  30.454  1.00 80.30      D
ATOM   4532  CD  LYS D  67      43.242  16.386  30.101  1.00 81.00      D
ATOM   4533  CE  LYS D  67      43.475  16.474  28.595  1.00 81.09      D
ATOM   4534  NZ  LYS D  67      43.951  15.203  27.984  1.00 82.28      D
ATOM   4535  C   LYS D  67      40.325  14.938  33.887  1.00 76.80      D
ATOM   4536  O   LYS D  67      39.471  15.735  34.303  1.00 70.94      D
ATOM   4537  N   ALA D  68      41.141  14.256  34.687  1.00 73.90      D
ATOM   4538  CA  ALA D  68      41.082  14.377  36.133  1.00 74.70      D
ATOM   4539  CB  ALA D  68      41.506  13.064  36.780  1.00 70.91      D
ATOM   4540  C   ALA D  68      41.975  15.505  36.621  1.00 74.57      D
ATOM   4541  O   ALA D  68      43.118  15.638  36.186  1.00 73.15      D
ATOM   4542  N   LEU D  69      41.437  16.308  37.533  1.00 74.84      D
ATOM   4543  CA  LEU D  69      42.160  17.431  38.112  1.00 73.78      D
ATOM   4544  CB  LEU D  69      41.528  17.808  39.454  1.00 69.96      D
ATOM   4545  CG  LEU D  69      42.171  18.999  40.158  1.00 68.45      D
ATOM   4546  CD1 LEU D  69      41.686  20.282  39.521  1.00 64.05      D
ATOM   4547  CD2 LEU D  69      41.820  18.974  41.626  1.00 68.57      D
ATOM   4548  C   LEU D  69      43.644  17.100  38.316  1.00 74.47      D
ATOM   4549  O   LEU D  69      44.003  15.957  38.622  1.00 76.95      D
ATOM   4550  N   THR D  70      44.504  18.101  38.139  1.00 69.69      D
ATOM   4551  CA  THR D  70      45.944  17.908  38.316  1.00 64.14      D
ATOM   4552  CB  THR D  70      46.713  18.014  36.980  1.00 64.09      D
ATOM   4553  OG1 THR D  70      46.714  19.379  36.531  1.00 70.54      D
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ATOM	4554	CG2	THR	D	70	46.072	17.123	35.921	1.00	57.41	D
ATOM	4555	C	THR	D	70	46.537	18.940	39.268	1.00	63.78	D
ATOM	4556	O	THR	D	70	45.891	19.936	39.606	1.00	56.52	D
ATOM	4557	N	ASN	D	71	47.773	18.698	39.692	1.00	63.48	D
ATOM	4558	CA	ASN	D	71	48.438	19.614	40.601	1.00	64.55	D
ATOM	4559	CB	ASN	D	71	49.790	19.045	41.055	1.00	68.24	D
ATOM	4560	CG	ASN	D	71	49.651	18.018	42.179	1.00	70.09	D
ATOM	4561	OD1	ASN	D	71	49.141	18.325	43.266	1.00	68.53	D
ATOM	4562	ND2	ASN	D	71	50.110	16.793	41.921	1.00	73.15	D
ATOM	4563	C	ASN	D	71	48.631	20.955	39.914	1.00	61.15	D
ATOM	4564	O	ASN	D	71	48.559	22.010	40.564	1.00	60.77	D
ATOM	4565	N	GLU	D	72	48.859	20.904	38.600	1.00	64.80	D
ATOM	4566	CA	GLU	D	72	49.066	22.105	37.788	1.00	66.23	D
ATOM	4567	CB	GLU	D	72	49.484	21.707	36.372	1.00	67.45	D
ATOM	4568	CG	GLU	D	72	50.967	21.414	36.205	1.00	66.76	D
ATOM	4569	CD	GLU	D	72	51.510	20.439	37.234	1.00	73.65	D
ATOM	4570	OE1	GLU	D	72	50.838	19.414	37.492	1.00	70.94	D
ATOM	4571	OE2	GLU	D	72	52.614	20.697	37.773	1.00	70.51	D
ATOM	4572	C	GLU	D	72	47.823	22.993	37.721	1.00	64.87	D
ATOM	4573	O	GLU	D	72	47.889	24.210	37.933	1.00	68.77	D
ATOM	4574	N	ALA	D	73	46.690	22.372	37.423	1.00	66.38	D
ATOM	4575	CA	ALA	D	73	45.434	23.092	37.325	1.00	66.66	D
ATOM	4576	CB	ALA	D	73	44.456	22.292	36.504	1.00	62.99	D
ATOM	4577	C	ALA	D	73	44.831	23.407	38.696	1.00	64.25	D
ATOM	4578	O	ALA	D	73	44.294	24.501	38.897	1.00	61.29	D
ATOM	4579	N	GLU	D	74	44.914	22.456	39.630	1.00	63.90	D
ATOM	4580	CA	GLU	D	74	44.372	22.645	40.977	1.00	64.07	D
ATOM	4581	CB	GLU	D	74	44.964	21.618	41.944	1.00	67.21	D
ATOM	4582	CG	GLU	D	74	44.450	21.709	43.407	1.00	78.31	D
ATOM	4583	CD	GLU	D	74	44.829	23.001	44.132	1.00	78.60	D
ATOM	4584	OE1	GLU	D	74	46.025	23.364	44.121	1.00	84.94	D
ATOM	4585	OE2	GLU	D	74	43.936	23.649	44.721	1.00	72.47	D
ATOM	4586	C	GLU	D	74	44.680	24.028	41.516	1.00	60.67	D
ATOM	4587	O	GLU	D	74	45.830	24.322	41.840	1.00	58.51	D
ATOM	4588	N	ASN	D	75	43.662	24.875	41.608	1.00	63.23	D
ATOM	4589	CA	ASN	D	75	43.859	26.211	42.149	1.00	68.18	D
ATOM	4590	CB	ASN	D	75	44.123	27.235	41.047	1.00	65.97	D
ATOM	4591	CG	ASN	D	75	44.501	28.602	41.608	1.00	61.83	D
ATOM	4592	OD1	ASN	D	75	45.524	28.754	42.282	1.00	67.56	D
ATOM	4593	ND2	ASN	D	75	43.669	29.600	41.340	1.00	59.05	D
ATOM	4594	C	ASN	D	75	42.642	26.631	42.949	1.00	70.77	D
ATOM	4595	O	ASN	D	75	41.948	27.597	42.607	1.00	64.82	D
ATOM	4596	N	TRP	D	76	42.392	25.884	44.020	1.00	72.34	D
ATOM	4597	CA	TRP	D	76	41.268	26.145	44.909	1.00	71.94	D
ATOM	4598	CB	TRP	D	76	41.218	25.102	46.026	1.00	70.51	D
ATOM	4599	CG	TRP	D	76	40.655	23.798	45.640	1.00	70.78	D
ATOM	4600	CD2	TRP	D	76	39.310	23.545	45.265	1.00	69.01	D
ATOM	4601	CE2	TRP	D	76	39.202	22.160	45.002	1.00	72.85	D
ATOM	4602	CE3	TRP	D	76	38.177	24.354	45.126	1.00	68.87	D
ATOM	4603	CD1	TRP	D	76	41.306	22.595	45.595	1.00	68.67	D
ATOM	4604	NE1	TRP	D	76	40.437	21.603	45.212	1.00	73.14	D
ATOM	4605	CZ2	TRP	D	76	38.004	21.565	44.605	1.00	74.68	D
ATOM	4606	CZ3	TRP	D	76	36.985	23.766	44.734	1.00	74.94	D
ATOM	4607	CH2	TRP	D	76	36.908	22.381	44.477	1.00	72.61	D
ATOM	4608	C	TRP	D	76	41.401	27.506	45.559	1.00	73.18	D
ATOM	4609	O	TRP	D	76	41.722	28.514	44.929	1.00	72.57	D
ATOM	4610	N	ALA	D	77	41.155	27.495	46.856	1.00	74.09	D
ATOM	4611	CA	ALA	D	77	41.233	28.676	47.672	1.00	77.50	D
ATOM	4612	CB	ALA	D	77	39.949	29.484	47.543	1.00	74.95	D
ATOM	4613	C	ALA	D	77	41.426	28.188	49.102	1.00	80.48	D
ATOM	4614	O	ALA	D	77	40.983	27.088	49.474	1.00	76.17	D
ATOM	4615	N	ASP	D	78	42.107	29.007	49.894	1.00	80.60	D
ATOM	4616	CA	ASP	D	78	42.378	28.686	51.284	1.00	84.19	D
ATOM	4617	CB	ASP	D	78	42.741	29.966	52.047	1.00	83.76	D
ATOM	4618	CG	ASP	D	78	43.631	30.903	51.239	1.00	83.23	D
ATOM	4619	OD1	ASP	D	78	44.601	30.410	50.615	1.00	80.86	D

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ATOM	4620	OD2	ASP	D	78	43.363	32.130	51.238	1.00	80.24	D
ATOM	4621	C	ASP	D	78	41.155	28.033	51.928	1.00	86.69	D
ATOM	4622	O	ASP	D	78	40.065	28.611	51.919	1.00	86.45	D
ATOM	4623	N	ASN	D	79	41.337	26.825	52.461	1.00	89.65	D
ATOM	4624	CA	ASN	D	79	40.268	26.098	53.149	1.00	90.38	D
ATOM	4625	CB	ASN	D	79	39.359	27.078	53.924	1.00	88.82	D
ATOM	4626	CG	ASN	D	79	40.111	27.875	55.001	1.00	88.88	D
ATOM	4627	OD1	ASN	D	79	39.672	28.955	55.406	1.00	80.11	D
ATOM	4628	ND2	ASN	D	79	41.235	27.339	55.474	1.00	84.71	D
ATOM	4629	C	ASN	D	79	39.391	25.222	52.255	1.00	92.03	D
ATOM	4630	O	ASN	D	79	38.787	24.254	52.731	1.00	93.71	D
ATOM	4631	N	GLU	D	80	39.326	25.545	50.967	1.00	90.95	D
ATOM	4632	CA	GLU	D	80	38.479	24.796	50.040	1.00	86.63	D
ATOM	4633	CB	GLU	D	80	38.161	25.683	48.842	1.00	85.21	D
ATOM	4634	CG	GLU	D	80	37.644	27.066	49.227	1.00	79.37	D
ATOM	4635	CD	GLU	D	80	36.225	27.044	49.760	1.00	80.61	D
ATOM	4636	OE1	GLU	D	80	35.742	28.114	50.195	1.00	72.70	D
ATOM	4637	OE2	GLU	D	80	35.594	25.962	49.737	1.00	79.23	D
ATOM	4638	C	GLU	D	80	39.082	23.473	49.567	1.00	83.67	D
ATOM	4639	O	GLU	D	80	40.292	23.369	49.395	1.00	84.16	D
ATOM	4640	N	PRO	D	81	38.243	22.439	49.353	1.00	84.54	D
ATOM	4641	CD	PRO	D	81	38.765	21.237	48.675	1.00	82.51	D
ATOM	4642	CA	PRO	D	81	36.781	22.344	49.495	1.00	85.37	D
ATOM	4643	CB	PRO	D	81	36.423	21.203	48.552	1.00	82.35	D
ATOM	4644	CG	PRO	D	81	37.581	20.285	48.729	1.00	81.58	D
ATOM	4645	C	PRO	D	81	36.227	22.099	50.916	1.00	85.90	D
ATOM	4646	O	PRO	D	81	36.975	21.861	51.878	1.00	82.32	D
ATOM	4647	N	ASN	D	82	34.899	22.135	51.024	1.00	86.88	D
ATOM	4648	CA	ASN	D	82	34.236	21.955	52.307	1.00	90.36	D
ATOM	4649	CB	ASN	D	82	34.254	23.290	53.070	1.00	84.90	D
ATOM	4650	CG	ASN	D	82	33.771	24.462	52.227	1.00	82.04	D
ATOM	4651	OD1	ASN	D	82	33.945	24.480	51.007	1.00	85.31	D
ATOM	4652	ND2	ASN	D	82	33.179	25.461	52.882	1.00	76.60	D
ATOM	4653	C	ASN	D	82	32.810	21.395	52.245	1.00	94.45	D
ATOM	4654	O	ASN	D	82	32.512	20.388	52.891	1.00	98.47	D
ATOM	4655	N	ASN	D	83	31.930	22.039	51.482	1.00	97.62	D
ATOM	4656	CA	ASN	D	83	30.538	21.586	51.360	1.00	98.75	D
ATOM	4657	CB	ASN	D	83	29.845	22.354	50.234	1.00	97.46	D
ATOM	4658	CG	ASN	D	83	29.935	23.853	50.422	1.00	98.84	D
ATOM	4659	OD1	ASN	D	83	29.393	24.400	51.376	1.00	99.77	D
ATOM	4660	ND2	ASN	D	83	30.631	24.523	49.518	1.00	105.04	D
ATOM	4661	C	ASN	D	83	30.467	20.076	51.104	1.00	101.09	D
ATOM	4662	O	ASN	D	83	30.988	19.583	50.103	1.00	100.68	D
ATOM	4663	N	LYS	D	84	29.808	19.355	52.008	1.00	102.58	D
ATOM	4664	CA	LYS	D	84	29.705	17.895	51.917	1.00	102.53	D
ATOM	4665	CB	LYS	D	84	30.033	17.289	53.295	1.00	105.61	D
ATOM	4666	CG	LYS	D	84	30.199	15.760	53.341	1.00	108.40	D
ATOM	4667	CD	LYS	D	84	31.670	15.322	53.219	1.00	109.16	D
ATOM	4668	CE	LYS	D	84	32.533	15.789	54.407	1.00	108.25	D
ATOM	4669	NZ	LYS	D	84	32.091	15.257	55.740	1.00	105.01	D
ATOM	4670	C	LYS	D	84	28.352	17.347	51.425	1.00	101.79	D
ATOM	4671	O	LYS	D	84	28.176	16.124	51.303	1.00	98.52	D
ATOM	4672	N	ARG	D	85	27.410	18.242	51.128	1.00	101.34	D
ATOM	4673	CA	ARG	D	85	26.075	17.830	50.680	1.00	101.81	D
ATOM	4674	CB	ARG	D	85	25.047	18.891	51.085	1.00	103.72	D
ATOM	4675	CG	ARG	D	85	23.653	18.359	51.374	1.00	104.07	D
ATOM	4676	CD	ARG	D	85	23.043	19.089	52.567	1.00	104.10	D
ATOM	4677	NE	ARG	D	85	23.886	18.992	53.763	1.00	108.04	D
ATOM	4678	CZ	ARG	D	85	24.925	19.785	54.046	1.00	110.02	D
ATOM	4679	NH1	ARG	D	85	25.620	19.595	55.160	1.00	110.16	D
ATOM	4680	NH2	ARG	D	85	25.267	20.778	53.236	1.00	110.86	D
ATOM	4681	C	ARG	D	85	25.968	17.565	49.177	1.00	100.86	D
ATOM	4682	O	ARG	D	85	26.428	18.364	48.357	1.00	98.49	D
ATOM	4683	N	ASN	D	86	25.353	16.437	48.824	1.00	97.86	D
ATOM	4684	CA	ASN	D	86	25.172	16.065	47.424	1.00	96.11	D
ATOM	4685	CB	ASN	D	86	24.147	14.923	47.309	1.00	96.46	D

ATOM	4686	CG	ASN	D	86	23.799	14.574	45.861	1.00	98.06	D
ATOM	4687	OD1	ASN	D	86	24.678	14.486	45.001	1.00	92.84	D
ATOM	4688	ND2	ASN	D	86	22.509	14.355	45.595	1.00	99.79	D
ATOM	4689	C	ASN	D	86	24.697	17.283	46.646	1.00	94.29	D
ATOM	4690	O	ASN	D	86	23.787	17.991	47.087	1.00	88.41	D
ATOM	4691	N	ASN	D	87	25.339	17.529	45.506	1.00	94.31	D
ATOM	4692	CA	ASN	D	87	25.010	18.648	44.625	1.00	93.85	D
ATOM	4693	CB	ASN	D	87	23.491	18.884	44.596	1.00	92.79	D
ATOM	4694	CG	ASN	D	87	22.944	19.023	43.184	1.00	92.14	D
ATOM	4695	OD1	ASN	D	87	23.014	18.088	42.384	1.00	86.67	D
ATOM	4696	ND2	ASN	D	87	22.396	20.193	42.873	1.00	91.89	D
ATOM	4697	C	ASN	D	87	25.735	19.940	45.009	1.00	95.10	D
ATOM	4698	O	ASN	D	87	25.332	21.031	44.607	1.00	93.60	D
ATOM	4699	N	GLU	D	88	26.797	19.820	45.798	1.00	97.88	D
ATOM	4700	CA	GLU	D	88	27.583	20.990	46.186	1.00	99.01	D
ATOM	4701	CB	GLU	D	88	27.506	21.246	47.702	1.00	100.54	D
ATOM	4702	CG	GLU	D	88	26.094	21.537	48.226	1.00	101.35	D
ATOM	4703	CD	GLU	D	88	26.085	22.281	49.562	1.00	105.35	D
ATOM	4704	OE1	GLU	D	88	26.802	21.855	50.498	1.00	104.79	D
ATOM	4705	OE2	GLU	D	88	25.349	23.290	49.675	1.00	103.50	D
ATOM	4706	C	GLU	D	88	29.032	20.757	45.758	1.00	97.64	D
ATOM	4707	O	GLU	D	88	29.978	21.188	46.423	1.00	94.73	D
ATOM	4708	N	ASP	D	89	29.180	20.055	44.637	1.00	96.28	D
ATOM	4709	CA	ASP	D	89	30.480	19.741	44.059	1.00	93.09	D
ATOM	4710	CB	ASP	D	89	30.600	18.233	43.801	1.00	91.11	D
ATOM	4711	CG	ASP	D	89	29.334	17.627	43.196	1.00	90.05	D
ATOM	4712	OD1	ASP	D	89	28.252	17.771	43.818	1.00	93.52	D
ATOM	4713	OD2	ASP	D	89	29.427	16.996	42.110	1.00	79.86	D
ATOM	4714	C	ASP	D	89	30.672	20.524	42.763	1.00	92.74	D
ATOM	4715	O	ASP	D	89	31.533	20.208	41.939	1.00	93.07	D
ATOM	4716	N	CYS	D	90	29.842	21.547	42.597	1.00	90.32	D
ATOM	4717	CA	CYS	D	90	29.900	22.428	41.434	1.00	89.69	D
ATOM	4718	C	CYS	D	90	30.793	23.598	41.868	1.00	87.18	D
ATOM	4719	O	CYS	D	90	30.542	24.214	42.902	1.00	86.51	D
ATOM	4720	CB	CYS	D	90	28.480	22.902	41.063	1.00	91.05	D
ATOM	4721	SG	CYS	D	90	27.375	21.577	40.448	1.00	97.32	D
ATOM	4722	N	VAL	D	91	31.833	23.896	41.091	1.00	81.80	D
ATOM	4723	CA	VAL	D	91	32.768	24.957	41.465	1.00	72.20	D
ATOM	4724	CB	VAL	D	91	34.212	24.452	41.394	1.00	72.97	D
ATOM	4725	CG1	VAL	D	91	35.156	25.463	42.044	1.00	71.80	D
ATOM	4726	CG2	VAL	D	91	34.305	23.088	42.059	1.00	71.99	D
ATOM	4727	C	VAL	D	91	32.713	26.269	40.699	1.00	72.10	D
ATOM	4728	O	VAL	D	91	32.502	26.304	39.491	1.00	76.92	D
ATOM	4729	N	GLU	D	92	32.936	27.353	41.429	1.00	68.63	D
ATOM	4730	CA	GLU	D	92	32.927	28.689	40.859	1.00	72.00	D
ATOM	4731	CB	GLU	D	92	32.046	29.612	41.698	1.00	76.49	D
ATOM	4732	CG	GLU	D	92	32.608	29.888	43.091	1.00	74.69	D
ATOM	4733	CD	GLU	D	92	32.373	31.321	43.530	1.00	78.07	D
ATOM	4734	OE1	GLU	D	92	32.703	32.232	42.745	1.00	68.51	D
ATOM	4735	OE2	GLU	D	92	31.867	31.540	44.653	1.00	79.75	D
ATOM	4736	C	GLU	D	92	34.357	29.196	40.907	1.00	74.87	D
ATOM	4737	O	GLU	D	92	35.173	28.669	41.659	1.00	73.73	D
ATOM	4738	N	ILE	D	93	34.665	30.220	40.122	1.00	74.22	D
ATOM	4739	CA	ILE	D	93	36.014	30.759	40.126	1.00	77.06	D
ATOM	4740	CB	ILE	D	93	36.747	30.437	38.814	1.00	79.05	D
ATOM	4741	CG2	ILE	D	93	36.023	31.062	37.646	1.00	83.04	D
ATOM	4742	CG1	ILE	D	93	38.183	30.951	38.892	1.00	78.19	D
ATOM	4743	CD1	ILE	D	93	39.074	30.432	37.804	1.00	73.37	D
ATOM	4744	C	ILE	D	93	36.012	32.262	40.356	1.00	76.13	D
ATOM	4745	O	ILE	D	93	35.352	33.010	39.640	1.00	76.16	D
ATOM	4746	N	TYR	D	94	36.768	32.692	41.360	1.00	77.93	D
ATOM	4747	CA	TYR	D	94	36.857	34.097	41.738	1.00	79.58	D
ATOM	4748	CB	TYR	D	94	37.604	34.227	43.067	1.00	87.49	D
ATOM	4749	CG	TYR	D	94	36.881	33.587	44.228	1.00	92.35	D
ATOM	4750	CD1	TYR	D	94	36.330	34.361	45.250	1.00	95.45	D
ATOM	4751	CE1	TYR	D	94	35.627	33.774	46.287	1.00	96.70	D

ATOM	4752	CD2	TYR	D	94	36.710	32.209	44.281	1.00	93.32	D
ATOM	4753	CE2	TYR	D	94	36.012	31.617	45.308	1.00	94.90	D
ATOM	4754	CZ	TYR	D	94	35.472	32.400	46.304	1.00	97.08	D
ATOM	4755	OH	TYR	D	94	34.764	31.793	47.308	1.00	98.72	D
ATOM	4756	C	TYR	D	94	37.505	35.016	40.721	1.00	77.00	D
ATOM	4757	O	TYR	D	94	38.606	35.498	40.938	1.00	76.52	D
ATOM	4758	N	ILE	D	95	36.823	35.283	39.620	1.00	76.17	D
ATOM	4759	CA	ILE	D	95	37.402	36.164	38.623	1.00	74.37	D
ATOM	4760	CB	ILE	D	95	36.672	36.042	37.270	1.00	68.07	D
ATOM	4761	CG2	ILE	D	95	37.395	36.863	36.197	1.00	73.61	D
ATOM	4762	CG1	ILE	D	95	36.605	34.566	36.868	1.00	71.63	D
ATOM	4763	CD1	ILE	D	95	37.909	33.809	37.044	1.00	59.17	D
ATOM	4764	C	ILE	D	95	37.360	37.602	39.113	1.00	75.83	D
ATOM	4765	O	ILE	D	95	36.294	38.153	39.388	1.00	77.45	D
ATOM	4766	N	LYS	D	96	38.544	38.193	39.225	1.00	76.83	D
ATOM	4767	CA	LYS	D	96	38.708	39.563	39.688	1.00	79.30	D
ATOM	4768	CB	LYS	D	96	37.940	40.520	38.768	1.00	77.58	D
ATOM	4769	CG	LYS	D	96	38.683	40.814	37.472	1.00	79.44	D
ATOM	4770	CD	LYS	D	96	37.828	41.584	36.483	1.00	77.40	D
ATOM	4771	CE	LYS	D	96	38.674	42.232	35.386	1.00	77.69	D
ATOM	4772	NZ	LYS	D	96	39.586	41.284	34.693	1.00	81.77	D
ATOM	4773	C	LYS	D	96	38.282	39.721	41.149	1.00	76.49	D
ATOM	4774	O	LYS	D	96	37.767	40.768	41.564	1.00	70.03	D
ATOM	4775	N	SER	D	97	38.518	38.666	41.926	1.00	79.99	D
ATOM	4776	CA	SER	D	97	38.191	38.657	43.351	1.00	84.56	D
ATOM	4777	CB	SER	D	97	38.463	37.279	43.965	1.00	83.24	D
ATOM	4778	OG	SER	D	97	38.285	37.304	45.374	1.00	86.28	D
ATOM	4779	C	SER	D	97	39.027	39.700	44.082	1.00	87.73	D
ATOM	4780	O	SER	D	97	40.259	39.710	43.976	1.00	87.67	D
ATOM	4781	N	PRO	D	98	38.365	40.586	44.843	1.00	89.47	D
ATOM	4782	CD	PRO	D	98	36.948	40.566	45.248	1.00	88.74	D
ATOM	4783	CA	PRO	D	98	39.098	41.615	45.574	1.00	90.26	D
ATOM	4784	CB	PRO	D	98	37.989	42.369	46.300	1.00	91.08	D
ATOM	4785	CG	PRO	D	98	36.982	41.302	46.557	1.00	91.41	D
ATOM	4786	C	PRO	D	98	40.115	40.993	46.523	1.00	89.95	D
ATOM	4787	O	PRO	D	98	41.207	41.532	46.713	1.00	89.02	D
ATOM	4788	N	SER	D	99	39.760	39.846	47.098	1.00	89.00	D
ATOM	4789	CA	SER	D	99	40.638	39.153	48.040	1.00	86.15	D
ATOM	4790	CB	SER	D	99	39.815	38.357	49.051	1.00	85.46	D
ATOM	4791	OG	SER	D	99	39.045	37.352	48.407	1.00	90.00	D
ATOM	4792	C	SER	D	99	41.597	38.201	47.350	1.00	84.97	D
ATOM	4793	O	SER	D	99	42.800	38.461	47.252	1.00	81.79	D
ATOM	4794	N	ALA	D	100	41.047	37.082	46.892	1.00	83.61	D
ATOM	4795	CA	ALA	D	100	41.822	36.054	46.209	1.00	84.69	D
ATOM	4796	CB	ALA	D	100	41.603	34.693	46.900	1.00	79.23	D
ATOM	4797	C	ALA	D	100	41.425	35.980	44.727	1.00	84.37	D
ATOM	4798	O	ALA	D	100	40.632	35.125	44.320	1.00	84.84	D
ATOM	4799	N	PRO	D	101	41.977	36.885	43.900	1.00	81.48	D
ATOM	4800	CD	PRO	D	101	42.983	37.929	44.172	1.00	84.05	D
ATOM	4801	CA	PRO	D	101	41.634	36.862	42.481	1.00	83.10	D
ATOM	4802	CB	PRO	D	101	42.321	38.124	41.952	1.00	84.04	D
ATOM	4803	CG	PRO	D	101	43.544	38.209	42.794	1.00	84.17	D
ATOM	4804	C	PRO	D	101	42.100	35.583	41.767	1.00	82.60	D
ATOM	4805	O	PRO	D	101	43.284	35.234	41.807	1.00	80.20	D
ATOM	4806	N	GLY	D	102	41.151	34.885	41.140	1.00	75.94	D
ATOM	4807	CA	GLY	D	102	41.459	33.681	40.388	1.00	72.02	D
ATOM	4808	C	GLY	D	102	41.509	32.369	41.138	1.00	75.05	D
ATOM	4809	O	GLY	D	102	42.427	31.587	40.919	1.00	72.40	D
ATOM	4810	N	LYS	D	103	40.537	32.110	42.007	1.00	76.48	D
ATOM	4811	CA	LYS	D	103	40.522	30.852	42.759	1.00	75.71	D
ATOM	4812	CB	LYS	D	103	40.793	31.107	44.241	1.00	82.58	D
ATOM	4813	CG	LYS	D	103	42.216	31.538	44.550	1.00	83.23	D
ATOM	4814	CD	LYS	D	103	42.502	32.944	44.048	1.00	89.38	D
ATOM	4815	CE	LYS	D	103	43.884	33.372	44.473	1.00	90.30	D
ATOM	4816	NZ	LYS	D	103	44.067	33.094	45.925	1.00	94.30	D
ATOM	4817	C	LYS	D	103	39.216	30.083	42.622	1.00	75.42	D

ATOM	4818	O	LYS	D	103	38.198	30.644	42.221	1.00	73.11	D
ATOM	4819	N	TRP	D	104	39.243	28.800	42.968	1.00	75.66	D
ATOM	4820	CA	TRP	D	104	38.046	27.979	42.859	1.00	78.47	D
ATOM	4821	CB	TRP	D	104	38.371	26.630	42.222	1.00	72.72	D
ATOM	4822	CG	TRP	D	104	39.341	26.697	41.089	1.00	73.80	D
ATOM	4823	CD2	TRP	D	104	40.037	25.595	40.502	1.00	70.20	D
ATOM	4824	CE2	TRP	D	104	40.831	26.110	39.458	1.00	71.17	D
ATOM	4825	CE3	TRP	D	104	40.067	24.218	40.757	1.00	68.05	D
ATOM	4826	CD1	TRP	D	104	39.729	27.808	40.396	1.00	73.50	D
ATOM	4827	NE1	TRP	D	104	40.625	27.464	39.415	1.00	72.21	D
ATOM	4828	CZ2	TRP	D	104	41.645	25.298	38.669	1.00	72.93	D
ATOM	4829	CZ3	TRP	D	104	40.875	23.413	39.973	1.00	67.19	D
ATOM	4830	CH2	TRP	D	104	41.652	23.956	38.941	1.00	69.17	D
ATOM	4831	C	TRP	D	104	37.373	27.743	44.205	1.00	85.92	D
ATOM	4832	O	TRP	D	104	38.037	27.592	45.234	1.00	87.26	D
ATOM	4833	N	ASN	D	105	36.044	27.701	44.171	1.00	89.72	D
ATOM	4834	CA	ASN	D	105	35.222	27.491	45.355	1.00	91.22	D
ATOM	4835	CB	ASN	D	105	34.775	28.842	45.922	1.00	92.80	D
ATOM	4836	CG	ASN	D	105	33.648	28.717	46.938	1.00	93.52	D
ATOM	4837	OD1	ASN	D	105	33.769	28.014	47.948	1.00	89.78	D
ATOM	4838	ND2	ASN	D	105	32.544	29.412	46.677	1.00	92.38	D
ATOM	4839	C	ASN	D	105	34.002	26.652	44.998	1.00	89.92	D
ATOM	4840	O	ASN	D	105	33.372	26.864	43.962	1.00	87.85	D
ATOM	4841	N	ASP	D	106	33.683	25.697	45.865	1.00	90.52	D
ATOM	4842	CA	ASP	D	106	32.538	24.820	45.667	1.00	89.76	D
ATOM	4843	CB	ASP	D	106	32.808	23.441	46.289	1.00	87.59	D
ATOM	4844	CG	ASP	D	106	32.825	23.469	47.810	1.00	86.15	D
ATOM	4845	OD1	ASP	D	106	33.663	24.179	48.405	1.00	78.45	D
ATOM	4846	OD2	ASP	D	106	31.991	22.767	48.410	1.00	85.21	D
ATOM	4847	C	ASP	D	106	31.301	25.449	46.302	1.00	89.05	D
ATOM	4848	O	ASP	D	106	31.321	25.826	47.475	1.00	89.65	D
ATOM	4849	N	GLU	D	107	30.233	25.566	45.515	1.00	90.60	D
ATOM	4850	CA	GLU	D	107	28.975	26.154	45.972	1.00	89.50	D
ATOM	4851	CB	GLU	D	107	28.745	27.496	45.264	1.00	88.05	D
ATOM	4852	CG	GLU	D	107	28.078	28.558	46.116	1.00	91.96	D
ATOM	4853	CD	GLU	D	107	29.040	29.211	47.094	1.00	95.48	D
ATOM	4854	OE1	GLU	D	107	28.743	29.247	48.311	1.00	91.72	D
ATOM	4855	OE2	GLU	D	107	30.097	29.697	46.642	1.00	96.99	D
ATOM	4856	C	GLU	D	107	27.808	25.198	45.668	1.00	91.18	D
ATOM	4857	O	GLU	D	107	27.989	24.167	45.011	1.00	84.32	D
ATOM	4858	N	HIS	D	108	26.618	25.543	46.153	1.00	95.61	D
ATOM	4859	CA	HIS	D	108	25.416	24.734	45.928	1.00	98.17	D
ATOM	4860	CB	HIS	D	108	24.288	25.240	46.842	1.00	100.99	D
ATOM	4861	CG	HIS	D	108	22.972	24.562	46.622	1.00	105.07	D
ATOM	4862	CD2	HIS	D	108	21.714	25.059	46.552	1.00	106.08	D
ATOM	4863	ND1	HIS	D	108	22.853	23.198	46.463	1.00	105.93	D
ATOM	4864	CE1	HIS	D	108	21.580	22.883	46.303	1.00	105.23	D
ATOM	4865	NE2	HIS	D	108	20.867	23.994	46.354	1.00	108.47	D
ATOM	4866	C	HIS	D	108	25.003	24.802	44.444	1.00	99.00	D
ATOM	4867	O	HIS	D	108	24.543	25.845	43.965	1.00	95.57	D
ATOM	4868	N	CYS	D	109	25.172	23.683	43.733	1.00	100.30	D
ATOM	4869	CA	CYS	D	109	24.870	23.567	42.295	1.00	100.21	D
ATOM	4870	C	CYS	D	109	23.665	24.305	41.688	1.00	100.27	D
ATOM	4871	O	CYS	D	109	23.537	24.357	40.460	1.00	98.02	D
ATOM	4872	CB	CYS	D	109	24.750	22.093	41.897	1.00	100.63	D
ATOM	4873	SG	CYS	D	109	26.257	21.089	42.067	1.00	103.16	D
ATOM	4874	N	LEU	D	110	22.781	24.858	42.514	1.00	99.20	D
ATOM	4875	CA	LEU	D	110	21.614	25.563	41.988	1.00	97.12	D
ATOM	4876	CB	LEU	D	110	20.349	25.123	42.728	1.00	98.57	D
ATOM	4877	CG	LEU	D	110	19.837	23.708	42.443	1.00	99.41	D
ATOM	4878	CD1	LEU	D	110	18.801	23.322	43.480	1.00	96.70	D
ATOM	4879	CD2	LEU	D	110	19.250	23.641	41.041	1.00	96.48	D
ATOM	4880	C	LEU	D	110	21.756	27.073	42.071	1.00	95.10	D
ATOM	4881	O	LEU	D	110	20.888	27.808	41.598	1.00	92.02	D
ATOM	4882	N	LYS	D	111	22.848	27.531	42.674	1.00	92.14	D
ATOM	4883	CA	LYS	D	111	23.101	28.964	42.813	1.00	92.38	D

ATOM	4884	CB	LYS	D	111	24.449	29.214	43.501	1.00	92.06	D
ATOM	4885	CG	LYS	D	111	24.389	29.529	45.003	1.00	94.09	D
ATOM	4886	CD	LYS	D	111	23.829	30.928	45.283	1.00	99.77	D
ATOM	4887	CE	LYS	D	111	24.234	31.440	46.669	1.00	102.98	D
ATOM	4888	NZ	LYS	D	111	23.859	30.512	47.773	1.00	104.32	D
ATOM	4889	C	LYS	D	111	23.128	29.606	41.440	1.00	92.72	D
ATOM	4890	O	LYS	D	111	22.841	28.954	40.438	1.00	93.58	D
ATOM	4891	N	LYS	D	112	23.463	30.890	41.400	1.00	91.55	D
ATOM	4892	CA	LYS	D	112	23.561	31.599	40.133	1.00	91.81	D
ATOM	4893	CB	LYS	D	112	22.501	32.707	40.021	1.00	93.58	D
ATOM	4894	CG	LYS	D	112	21.099	32.193	39.717	1.00	96.42	D
ATOM	4895	CD	LYS	D	112	20.181	33.318	39.256	1.00	98.15	D
ATOM	4896	CE	LYS	D	112	18.791	32.807	38.841	1.00	99.56	D
ATOM	4897	NZ	LYS	D	112	17.960	32.292	39.975	1.00	96.34	D
ATOM	4898	C	LYS	D	112	24.956	32.193	40.010	1.00	94.63	D
ATOM	4899	O	LYS	D	112	25.473	32.785	40.959	1.00	92.31	D
ATOM	4900	N	LYS	D	113	25.561	32.007	38.838	1.00	94.34	D
ATOM	4901	CA	LYS	D	113	26.903	32.506	38.546	1.00	92.41	D
ATOM	4902	CB	LYS	D	113	27.958	31.609	39.209	1.00	93.90	D
ATOM	4903	CG	LYS	D	113	27.749	31.298	40.690	1.00	92.04	D
ATOM	4904	CD	LYS	D	113	28.698	30.199	41.164	1.00	91.39	D
ATOM	4905	CE	LYS	D	113	28.692	30.090	42.669	1.00	85.73	D
ATOM	4906	NZ	LYS	D	113	29.106	31.390	43.267	1.00	80.42	D
ATOM	4907	C	LYS	D	113	27.106	32.462	37.026	1.00	90.21	D
ATOM	4908	O	LYS	D	113	26.667	31.513	36.380	1.00	87.14	D
ATOM	4909	N	HIS	D	114	27.758	33.472	36.450	1.00	87.27	D
ATOM	4910	CA	HIS	D	114	28.007	33.473	35.008	1.00	87.02	D
ATOM	4911	CB	HIS	D	114	28.936	34.611	34.618	1.00	81.88	D
ATOM	4912	CG	HIS	D	114	28.334	35.961	34.800	1.00	78.31	D
ATOM	4913	CD2	HIS	D	114	28.258	37.022	33.964	1.00	82.38	D
ATOM	4914	ND1	HIS	D	114	27.719	36.347	35.968	1.00	79.47	D
ATOM	4915	CE1	HIS	D	114	27.290	37.591	35.845	1.00	82.85	D
ATOM	4916	NE2	HIS	D	114	27.605	38.023	34.638	1.00	82.69	D
ATOM	4917	C	HIS	D	114	28.659	32.164	34.602	1.00	87.47	D
ATOM	4918	O	HIS	D	114	29.226	31.460	35.434	1.00	88.40	D
ATOM	4919	N	ALA	D	115	28.589	31.847	33.316	1.00	83.65	D
ATOM	4920	CA	ALA	D	115	29.170	30.611	32.805	1.00	81.68	D
ATOM	4921	CB	ALA	D	115	28.163	29.902	31.896	1.00	81.05	D
ATOM	4922	C	ALA	D	115	30.468	30.872	32.042	1.00	77.06	D
ATOM	4923	O	ALA	D	115	30.545	31.803	31.234	1.00	77.26	D
ATOM	4924	N	LEU	D	116	31.488	30.053	32.301	1.00	70.81	D
ATOM	4925	CA	LEU	D	116	32.763	30.203	31.608	1.00	67.58	D
ATOM	4926	CB	LEU	D	116	33.909	30.187	32.606	1.00	63.53	D
ATOM	4927	CG	LEU	D	116	35.136	30.905	32.059	1.00	62.43	D
ATOM	4928	CD1	LEU	D	116	34.754	32.331	31.682	1.00	55.88	D
ATOM	4929	CD2	LEU	D	116	36.252	30.877	33.090	1.00	64.13	D
ATOM	4930	C	LEU	D	116	32.938	29.076	30.589	1.00	64.45	D
ATOM	4931	O	LEU	D	116	33.221	27.930	30.954	1.00	60.89	D
ATOM	4932	N	CYS	D	117	32.762	29.416	29.309	1.00	64.45	D
ATOM	4933	CA	CYS	D	117	32.859	28.448	28.216	1.00	68.28	D
ATOM	4934	C	CYS	D	117	34.209	28.404	27.507	1.00	66.64	D
ATOM	4935	O	CYS	D	117	35.009	29.339	27.556	1.00	62.50	D
ATOM	4936	CB	CYS	D	117	31.790	28.714	27.143	1.00	69.19	D
ATOM	4937	SG	CYS	D	117	30.058	28.860	27.678	1.00	70.26	D
ATOM	4938	N	TYR	D	118	34.439	27.299	26.820	1.00	65.31	D
ATOM	4939	CA	TYR	D	118	35.661	27.134	26.084	1.00	67.74	D
ATOM	4940	CB	TYR	D	118	36.657	26.307	26.892	1.00	60.03	D
ATOM	4941	CG	TYR	D	118	36.509	24.800	26.729	1.00	57.17	D
ATOM	4942	CD1	TYR	D	118	35.377	24.124	27.179	1.00	58.00	D
ATOM	4943	CE1	TYR	D	118	35.273	22.733	27.049	1.00	54.13	D
ATOM	4944	CD2	TYR	D	118	37.522	24.050	26.145	1.00	59.13	D
ATOM	4945	CE2	TYR	D	118	37.420	22.670	26.016	1.00	56.17	D
ATOM	4946	CZ	TYR	D	118	36.302	22.021	26.470	1.00	57.32	D
ATOM	4947	OH	TYR	D	118	36.238	20.662	26.361	1.00	57.93	D
ATOM	4948	C	TYR	D	118	35.305	26.404	24.804	1.00	66.04	D
ATOM	4949	O	TYR	D	118	34.511	25.468	24.815	1.00	61.96	D

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ATOM	4950	N	THR	D	119	35.873	26.851	23.694	1.00	68.05	D
ATOM	4951	CA	THR	D	119	35.637	26.203	22.418	1.00	65.00	D
ATOM	4952	CB	THR	D	119	35.392	27.221	21.293	1.00	63.21	D
ATOM	4953	OG1	THR	D	119	34.668	28.338	21.808	1.00	66.36	D
ATOM	4954	CG2	THR	D	119	34.570	26.601	20.201	1.00	64.34	D
ATOM	4955	C	THR	D	119	36.928	25.449	22.125	1.00	58.29	D
ATOM	4956	O	THR	D	119	37.993	26.056	21.983	1.00	54.90	D
ATOM	4957	N	ALA	D	120	36.838	24.125	22.068	1.00	56.67	D
ATOM	4958	CA	ALA	D	120	37.996	23.293	21.781	1.00	58.84	D
ATOM	4959	CB	ALA	D	120	37.588	21.830	21.770	1.00	50.93	D
ATOM	4960	C	ALA	D	120	38.581	23.683	20.427	1.00	62.46	D
ATOM	4961	O	ALA	D	120	37.870	23.724	19.418	1.00	70.60	D
ATOM	4962	N	SER	D	121	39.876	23.976	20.407	1.00	63.74	D
ATOM	4963	CA	SER	D	121	40.530	24.359	19.166	1.00	61.90	D
ATOM	4964	CB	SER	D	121	41.737	25.252	19.460	1.00	60.75	D
ATOM	4965	OG	SER	D	121	41.354	26.497	20.026	1.00	58.41	D
ATOM	4966	C	SER	D	121	40.977	23.115	18.417	1.00	59.93	D
ATOM	4967	O	SER	D	121	41.149	23.133	17.198	1.00	59.35	D
ATOM	4968	N	CYS	D	122	41.160	22.035	19.166	1.00	62.80	D
ATOM	4969	CA	CYS	D	122	41.591	20.764	18.605	1.00	64.96	D
ATOM	4970	C	CYS	D	122	40.430	20.034	17.954	1.00	70.60	D
ATOM	4971	O	CYS	D	122	39.613	19.408	18.635	1.00	73.80	D
ATOM	4972	CB	CYS	D	122	42.199	19.877	19.693	1.00	62.86	D
ATOM	4973	SG	CYS	D	122	43.843	20.396	20.271	1.00	59.86	D
ATOM	4974	N	GLN	D	123	40.362	20.116	16.630	1.00	70.63	D
ATOM	4975	CA	GLN	D	123	39.308	19.460	15.877	1.00	75.35	D
ATOM	4976	CB	GLN	D	123	39.036	20.252	14.603	1.00	70.84	D
ATOM	4977	CG	GLN	D	123	38.768	21.730	14.866	1.00	79.23	D
ATOM	4978	CD	GLN	D	123	37.489	21.977	15.663	1.00	84.52	D
ATOM	4979	OE1	GLN	D	123	37.232	23.097	16.116	1.00	87.10	D
ATOM	4980	NE2	GLN	D	123	36.679	20.932	15.828	1.00	84.49	D
ATOM	4981	C	GLN	D	123	39.765	18.050	15.534	1.00	77.03	D
ATOM	4982	O	GLN	D	123	39.978	17.219	16.416	1.00	77.53	D
ATOM	4983	N	ASP	D	124	39.923	17.792	14.243	1.00	78.39	D
ATOM	4984	CA	ASP	D	124	40.365	16.488	13.771	1.00	80.93	D
ATOM	4985	CB	ASP	D	124	39.284	15.832	12.905	1.00	86.06	D
ATOM	4986	CG	ASP	D	124	39.864	15.128	11.685	1.00	91.09	D
ATOM	4987	OD1	ASP	D	124	40.849	14.372	11.854	1.00	87.84	D
ATOM	4988	OD2	ASP	D	124	39.342	15.330	10.561	1.00	88.05	D
ATOM	4989	C	ASP	D	124	41.645	16.614	12.961	1.00	78.48	D
ATOM	4990	O	ASP	D	124	42.701	16.137	13.377	1.00	73.93	D
ATOM	4991	N	MET	D	125	41.536	17.258	11.800	1.00	74.99	D
ATOM	4992	CA	MET	D	125	42.668	17.441	10.898	1.00	76.40	D
ATOM	4993	CB	MET	D	125	42.256	18.292	9.684	1.00	78.41	D
ATOM	4994	CG	MET	D	125	42.782	17.784	8.324	1.00	83.87	D
ATOM	4995	SD	MET	D	125	44.586	17.525	8.210	1.00	89.20	D
ATOM	4996	CE	MET	D	125	44.723	15.845	8.819	1.00	87.02	D
ATOM	4997	C	MET	D	125	43.837	18.108	11.614	1.00	70.20	D
ATOM	4998	O	MET	D	125	44.914	18.297	11.034	1.00	65.54	D
ATOM	4999	N	SER	D	126	43.624	18.475	12.873	1.00	68.01	D
ATOM	5000	CA	SER	D	126	44.674	19.112	13.657	1.00	61.50	D
ATOM	5001	CB	SER	D	126	44.096	19.586	14.989	1.00	68.68	D
ATOM	5002	OG	SER	D	126	42.823	20.183	14.791	1.00	62.71	D
ATOM	5003	C	SER	D	126	45.786	18.086	13.888	1.00	53.95	D
ATOM	5004	O	SER	D	126	45.522	16.908	14.141	1.00	49.50	D
ATOM	5005	N	CYS	D	127	47.030	18.523	13.775	1.00	49.55	D
ATOM	5006	CA	CYS	D	127	48.139	17.615	13.980	1.00	46.58	D
ATOM	5007	C	CYS	D	127	48.065	16.513	12.949	1.00	46.82	D
ATOM	5008	O	CYS	D	127	48.498	15.402	13.177	1.00	40.88	D
ATOM	5009	CB	CYS	D	127	48.066	17.052	15.387	1.00	51.54	D
ATOM	5010	SG	CYS	D	127	47.999	18.377	16.629	1.00	48.86	D
ATOM	5011	N	SER	D	128	47.508	16.848	11.797	1.00	39.26	D
ATOM	5012	CA	SER	D	128	47.369	15.905	10.702	1.00	39.88	D
ATOM	5013	CB	SER	D	128	48.612	15.939	9.822	1.00	46.47	D
ATOM	5014	OG	SER	D	128	48.641	17.115	9.038	1.00	46.57	D
ATOM	5015	C	SER	D	128	47.131	14.488	11.167	1.00	40.74	D

ATOM	5016	O	SER	D	128	47.745	13.564	10.651	1.00	44.44	D
ATOM	5017	N	LYS	D	129	46.237	14.319	12.139	1.00	44.11	D
ATOM	5018	CA	LYS	D	129	45.921	12.993	12.686	1.00	46.55	D
ATOM	5019	CB	LYS	D	129	45.001	12.210	11.730	1.00	42.12	D
ATOM	5020	CG	LYS	D	129	43.499	12.568	11.715	1.00	57.78	D
ATOM	5021	CD	LYS	D	129	42.728	11.533	10.843	1.00	56.76	D
ATOM	5022	CE	LYS	D	129	41.228	11.424	11.193	1.00	63.73	D
ATOM	5023	NZ	LYS	D	129	40.561	10.124	10.793	1.00	62.13	D
ATOM	5024	C	LYS	D	129	47.177	12.147	12.939	1.00	48.44	D
ATOM	5025	O	LYS	D	129	47.076	10.938	13.109	1.00	47.81	D
ATOM	5026	N	GLN	D	130	48.347	12.778	12.966	1.00	38.85	D
ATOM	5027	CA	GLN	D	130	49.591	12.062	13.163	1.00	43.79	D
ATOM	5028	CB	GLN	D	130	50.444	12.193	11.908	1.00	42.53	D
ATOM	5029	CG	GLN	D	130	49.761	11.716	10.633	1.00	46.83	D
ATOM	5030	CD	GLN	D	130	50.549	12.075	9.374	1.00	50.24	D
ATOM	5031	OE1	GLN	D	130	51.410	12.952	9.403	1.00	49.92	D
ATOM	5032	NE2	GLN	D	130	50.243	11.411	8.259	1.00	48.49	D
ATOM	5033	C	GLN	D	130	50.357	12.610	14.350	1.00	43.08	D
ATOM	5034	O	GLN	D	130	51.523	12.955	14.227	1.00	36.39	D
ATOM	5035	N	GLY	D	131	49.703	12.685	15.500	1.00	41.85	D
ATOM	5036	CA	GLY	D	131	50.339	13.215	16.700	1.00	46.11	D
ATOM	5037	C	GLY	D	131	49.259	13.780	17.600	1.00	49.31	D
ATOM	5038	O	GLY	D	131	48.128	13.923	17.155	1.00	50.01	D
ATOM	5039	N	GLU	D	132	49.568	14.109	18.849	1.00	40.72	D
ATOM	5040	CA	GLU	D	132	48.526	14.631	19.737	1.00	41.88	D
ATOM	5041	CB	GLU	D	132	48.745	14.189	21.195	1.00	55.02	D
ATOM	5042	CG	GLU	D	132	47.889	14.991	22.196	1.00	68.13	D
ATOM	5043	CD	GLU	D	132	47.829	14.391	23.602	1.00	76.43	D
ATOM	5044	OE1	GLU	D	132	47.374	13.230	23.733	1.00	81.32	D
ATOM	5045	OE2	GLU	D	132	48.219	15.085	24.577	1.00	78.43	D
ATOM	5046	C	GLU	D	132	48.347	16.135	19.707	1.00	44.30	D
ATOM	5047	O	GLU	D	132	49.291	16.893	19.505	1.00	40.52	D
ATOM	5048	N	CYS	D	133	47.109	16.556	19.931	1.00	50.06	D
ATOM	5049	CA	CYS	D	133	46.760	17.965	19.941	1.00	49.05	D
ATOM	5050	C	CYS	D	133	46.590	18.467	21.389	1.00	49.76	D
ATOM	5051	O	CYS	D	133	45.786	17.941	22.170	1.00	47.19	D
ATOM	5052	CB	CYS	D	133	45.472	18.155	19.136	1.00	45.06	D
ATOM	5053	SG	CYS	D	133	45.015	19.861	18.724	1.00	50.83	D
ATOM	5054	N	LEU	D	134	47.379	19.476	21.741	1.00	48.11	D
ATOM	5055	CA	LEU	D	134	47.332	20.071	23.068	1.00	53.08	D
ATOM	5056	CB	LEU	D	134	48.751	20.254	23.626	1.00	57.88	D
ATOM	5057	CG	LEU	D	134	49.771	19.143	23.336	1.00	70.49	D
ATOM	5058	CD1	LEU	D	134	50.340	19.347	21.950	1.00	66.25	D
ATOM	5059	CD2	LEU	D	134	50.904	19.167	24.346	1.00	66.62	D
ATOM	5060	C	LEU	D	134	46.676	21.427	22.883	1.00	53.13	D
ATOM	5061	O	LEU	D	134	47.027	22.160	21.963	1.00	50.83	D
ATOM	5062	N	GLU	D	135	45.720	21.769	23.734	1.00	49.90	D
ATOM	5063	CA	GLU	D	135	45.069	23.053	23.579	1.00	46.33	D
ATOM	5064	CB	GLU	D	135	43.628	23.002	24.089	1.00	48.97	D
ATOM	5065	CG	GLU	D	135	42.746	21.947	23.426	1.00	48.50	D
ATOM	5066	CD	GLU	D	135	41.558	22.540	22.692	1.00	53.18	D
ATOM	5067	OE1	GLU	D	135	41.263	23.735	22.887	1.00	46.39	D
ATOM	5068	OE2	GLU	D	135	40.913	21.801	21.922	1.00	48.39	D
ATOM	5069	C	GLU	D	135	45.848	24.112	24.327	1.00	50.36	D
ATOM	5070	O	GLU	D	135	46.401	23.844	25.385	1.00	46.43	D
ATOM	5071	N	THR	D	136	45.905	25.306	23.744	1.00	48.11	D
ATOM	5072	CA	THR	D	136	46.597	26.453	24.325	1.00	52.70	D
ATOM	5073	CB	THR	D	136	47.859	26.852	23.526	1.00	50.82	D
ATOM	5074	OG1	THR	D	136	47.490	27.319	22.221	1.00	50.32	D
ATOM	5075	CG2	THR	D	136	48.779	25.672	23.387	1.00	44.40	D
ATOM	5076	C	THR	D	136	45.642	27.629	24.296	1.00	56.46	D
ATOM	5077	O	THR	D	136	44.540	27.520	23.768	1.00	56.63	D
ATOM	5078	N	ILE	D	137	46.064	28.754	24.860	1.00	58.42	D
ATOM	5079	CA	ILE	D	137	45.220	29.935	24.887	1.00	58.06	D
ATOM	5080	CB	ILE	D	137	45.805	31.019	25.779	1.00	63.82	D
ATOM	5081	CG2	ILE	D	137	44.860	32.212	25.816	1.00	63.90	D

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ATOM   5082  CG1 ILE D 137      46.043  30.455  27.179  1.00 64.61      D
ATOM   5083  CD1 ILE D 137      46.734  31.426  28.118  1.00 53.65      D
ATOM   5084  C   ILE D 137      45.029  30.523  23.501  1.00 58.72      D
ATOM   5085  O   ILE D 137      45.893  31.245  23.001  1.00 54.12      D
ATOM   5086  N   GLY D 138      43.889  30.193  22.892  1.00 64.58      D
ATOM   5087  CA  GLY D 138      43.538  30.688  21.567  1.00 68.24      D
ATOM   5088  C   GLY D 138      44.174  29.984  20.380  1.00 67.89      D
ATOM   5089  O   GLY D 138      44.261  30.564  19.292  1.00 67.78      D
ATOM   5090  N   ASN D 139      44.602  28.739  20.571  1.00 63.54      D
ATOM   5091  CA  ASN D 139      45.256  27.987  19.508  1.00 58.98      D
ATOM   5092  CB  ASN D 139      46.598  28.647  19.184  1.00 59.50      D
ATOM   5093  CG  ASN D 139      47.158  28.213  17.854  1.00 57.71      D
ATOM   5094  OD1 ASN D 139      46.468  28.258  16.835  1.00 58.19      D
ATOM   5095  ND2 ASN D 139      48.425  27.802  17.849  1.00 61.10      D
ATOM   5096  C   ASN D 139      45.474  26.559  19.982  1.00 59.06      D
ATOM   5097  O   ASN D 139      44.558  25.915  20.465  1.00 56.89      D
ATOM   5098  N   TYR D 140      46.693  26.068  19.845  1.00 55.70      D
ATOM   5099  CA  TYR D 140      47.028  24.724  20.270  1.00 55.23      D
ATOM   5100  CB  TYR D 140      46.003  23.710  19.757  1.00 53.04      D
ATOM   5101  CG  TYR D 140      45.997  23.511  18.261  1.00 56.37      D
ATOM   5102  CD1 TYR D 140      45.649  24.544  17.390  1.00 59.10      D
ATOM   5103  CE1 TYR D 140      45.638  24.351  15.988  1.00 54.16      D
ATOM   5104  CD2 TYR D 140      46.333  22.281  17.703  1.00 58.61      D
ATOM   5105  CE2 TYR D 140      46.323  22.077  16.310  1.00 62.05      D
ATOM   5106  CZ  TYR D 140      45.975  23.115  15.466  1.00 62.41      D
ATOM   5107  OH  TYR D 140      45.965  22.914  14.110  1.00 49.19      D
ATOM   5108  C   TYR D 140      48.399  24.410  19.711  1.00 53.96      D
ATOM   5109  O   TYR D 140      49.034  25.252  19.080  1.00 55.65      D
ATOM   5110  N   THR D 141      48.869  23.202  19.953  1.00 51.89      D
ATOM   5111  CA  THR D 141      50.167  22.801  19.455  1.00 49.60      D
ATOM   5112  CB  THR D 141      51.291  23.227  20.453  1.00 52.05      D
ATOM   5113  OG1 THR D 141      50.975  22.792  21.782  1.00 46.74      D
ATOM   5114  CG2 THR D 141      51.427  24.731  20.474  1.00 49.80      D
ATOM   5115  C   THR D 141      50.115  21.281  19.232  1.00 48.04      D
ATOM   5116  O   THR D 141      49.156  20.626  19.656  1.00 51.48      D
ATOM   5117  N   CYS D 142      51.116  20.716  18.557  1.00 51.66      D
ATOM   5118  CA  CYS D 142      51.113  19.278  18.291  1.00 49.40      D
ATOM   5119  C   CYS D 142      52.323  18.507  18.780  1.00 55.21      D
ATOM   5120  O   CYS D 142      53.459  18.929  18.577  1.00 58.17      D
ATOM   5121  CB  CYS D 142      50.970  19.010  16.792  1.00 50.19      D
ATOM   5122  SG  CYS D 142      49.459  19.649  16.009  1.00 50.48      D
ATOM   5123  N   SER D 143      52.053  17.373  19.424  1.00 52.41      D
ATOM   5124  CA  SER D 143      53.082  16.464  19.915  1.00 52.89      D
ATOM   5125  CB  SER D 143      52.712  15.898  21.287  1.00 54.14      D
ATOM   5126  OG  SER D 143      52.547  16.918  22.263  1.00 68.31      D
ATOM   5127  C   SER D 143      52.966  15.383  18.867  1.00 49.42      D
ATOM   5128  O   SER D 143      51.900  14.814  18.692  1.00 48.49      D
ATOM   5129  N   CYS D 144      54.042  15.100  18.153  1.00 44.89      D
ATOM   5130  CA  CYS D 144      53.954  14.112  17.086  1.00 49.25      D
ATOM   5131  C   CYS D 144      54.270  12.676  17.455  1.00 51.91      D
ATOM   5132  O   CYS D 144      55.310  12.376  18.055  1.00 52.36      D
ATOM   5133  CB  CYS D 144      54.837  14.514  15.900  1.00 47.99      D
ATOM   5134  SG  CYS D 144      54.582  16.210  15.292  1.00 47.42      D
ATOM   5135  N   TYR D 145      53.355  11.788  17.073  1.00 52.06      D
ATOM   5136  CA  TYR D 145      53.536  10.380  17.329  1.00 50.74      D
ATOM   5137  CB  TYR D 145      52.393   9.561  16.728  1.00 42.68      D
ATOM   5138  CG  TYR D 145      51.028   9.864  17.296  1.00 58.31      D
ATOM   5139  CD1 TYR D 145      50.879  10.427  18.561  1.00 59.36      D
ATOM   5140  CE1 TYR D 145      49.609  10.668  19.104  1.00 62.27      D
ATOM   5141  CD2 TYR D 145      49.876   9.547  16.583  1.00 60.95      D
ATOM   5142  CE2 TYR D 145      48.603   9.781  17.116  1.00 64.75      D
ATOM   5143  CZ  TYR D 145      48.477  10.342  18.373  1.00 65.34      D
ATOM   5144  OH  TYR D 145      47.222  10.592  18.881  1.00 66.73      D
ATOM   5145  C   TYR D 145      54.834  10.039  16.629  1.00 49.35      D
ATOM   5146  O   TYR D 145      55.073  10.493  15.521  1.00 53.61      D
ATOM   5147  N   PRO D 146      55.696   9.251  17.278  1.00 47.95      D
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ATOM 5148 CD PRO D 146 55.430 8.541 18.544 1.00 44.06 D
ATOM 5149 CA PRO D 146 56.982 8.848 16.717 1.00 46.57 D
ATOM 5150 CB PRO D 146 57.281 7.567 17.469 1.00 51.47 D
ATOM 5151 CG PRO D 146 56.761 7.889 18.845 1.00 48.54 D
ATOM 5152 C PRO D 146 56.856 8.606 15.239 1.00 47.12 D
ATOM 5153 O PRO D 146 55.951 7.894 14.824 1.00 50.64 D
ATOM 5154 N GLY D 147 57.740 9.210 14.449 1.00 44.63 D
ATOM 5155 CA GLY D 147 57.704 9.008 13.006 1.00 43.61 D
ATOM 5156 C GLY D 147 57.308 10.188 12.141 1.00 48.52 D
ATOM 5157 O GLY D 147 57.472 10.146 10.923 1.00 53.00 D
ATOM 5158 N PHE D 148 56.796 11.239 12.778 1.00 45.66 D
ATOM 5159 CA PHE D 148 56.331 12.449 12.099 1.00 47.16 D
ATOM 5160 CB PHE D 148 54.802 12.467 12.044 1.00 42.99 D
ATOM 5161 CG PHE D 148 54.199 11.170 11.623 1.00 51.09 D
ATOM 5162 CD1 PHE D 148 54.295 10.053 12.427 1.00 52.93 D
ATOM 5163 CD2 PHE D 148 53.547 11.060 10.417 1.00 45.91 D
ATOM 5164 CE1 PHE D 148 53.751 8.846 12.035 1.00 51.08 D
ATOM 5165 CE2 PHE D 148 52.998 9.853 10.014 1.00 47.78 D
ATOM 5166 CZ PHE D 148 53.101 8.746 10.825 1.00 54.60 D
ATOM 5167 C PHE D 148 56.802 13.738 12.778 1.00 46.45 D
ATOM 5168 O PHE D 148 56.769 13.870 14.006 1.00 42.16 D
ATOM 5169 N TYR D 149 57.235 14.689 11.956 1.00 46.28 D
ATOM 5170 CA TYR D 149 57.688 15.977 12.443 1.00 41.78 D
ATOM 5171 CB TYR D 149 59.183 16.152 12.229 1.00 41.61 D
ATOM 5172 CG TYR D 149 59.621 16.012 10.812 1.00 35.89 D
ATOM 5173 CD1 TYR D 149 59.545 14.797 10.175 1.00 37.76 D
ATOM 5174 CE1 TYR D 149 59.972 14.647 8.871 1.00 40.49 D
ATOM 5175 CD2 TYR D 149 60.137 17.088 10.115 1.00 30.29 D
ATOM 5176 CE2 TYR D 149 60.567 16.950 8.813 1.00 29.25 D
ATOM 5177 CZ TYR D 149 60.481 15.721 8.196 1.00 38.50 D
ATOM 5178 OH TYR D 149 60.909 15.536 6.908 1.00 37.26 D
ATOM 5179 C TYR D 149 56.954 17.099 11.751 1.00 46.32 D
ATOM 5180 O TYR D 149 56.185 16.884 10.824 1.00 44.33 D
ATOM 5181 N GLY D 150 57.207 18.308 12.211 1.00 42.20 D
ATOM 5182 CA GLY D 150 56.542 19.452 11.641 1.00 39.06 D
ATOM 5183 C GLY D 150 55.688 19.999 12.756 1.00 41.94 D
ATOM 5184 O GLY D 150 55.605 19.367 13.817 1.00 40.26 D
ATOM 5185 N PRO D 151 55.053 21.168 12.560 1.00 47.37 D
ATOM 5186 CD PRO D 151 55.264 22.029 11.383 1.00 50.69 D
ATOM 5187 CA PRO D 151 54.191 21.837 13.537 1.00 47.62 D
ATOM 5188 CB PRO D 151 54.252 23.282 13.095 1.00 41.68 D
ATOM 5189 CG PRO D 151 54.267 23.152 11.610 1.00 42.34 D
ATOM 5190 C PRO D 151 52.781 21.282 13.501 1.00 45.70 D
ATOM 5191 O PRO D 151 51.979 21.538 14.394 1.00 52.23 D
ATOM 5192 N GLU D 152 52.476 20.537 12.449 1.00 45.11 D
ATOM 5193 CA GLU D 152 51.179 19.906 12.305 1.00 41.63 D
ATOM 5194 CB GLU D 152 50.433 20.465 11.107 1.00 44.37 D
ATOM 5195 CG GLU D 152 49.739 21.784 11.350 1.00 40.18 D
ATOM 5196 CD GLU D 152 48.571 21.665 12.318 1.00 42.64 D
ATOM 5197 OE1 GLU D 152 47.753 20.715 12.188 1.00 44.39 D
ATOM 5198 OE2 GLU D 152 48.462 22.541 13.206 1.00 45.40 D
ATOM 5199 C GLU D 152 51.476 18.440 12.080 1.00 42.81 D
ATOM 5200 O GLU D 152 50.650 17.692 11.562 1.00 46.49 D
ATOM 5201 N CYS D 153 52.681 18.040 12.470 1.00 41.60 D
ATOM 5202 CA CYS D 153 53.114 16.665 12.325 1.00 46.30 D
ATOM 5203 C CYS D 153 52.721 16.255 10.941 1.00 42.73 D
ATOM 5204 O CYS D 153 52.268 15.143 10.733 1.00 41.63 D
ATOM 5205 CB CYS D 153 52.392 15.776 13.333 1.00 44.87 D
ATOM 5206 SG CYS D 153 52.583 16.323 15.053 1.00 46.47 D
ATOM 5207 N GLU D 154 52.888 17.169 9.999 1.00 37.96 D
ATOM 5208 CA GLU D 154 52.496 16.912 8.629 1.00 34.85 D
ATOM 5209 CB GLU D 154 51.991 18.213 7.974 1.00 40.31 D
ATOM 5210 CG GLU D 154 53.026 19.325 7.810 1.00 36.68 D
ATOM 5211 CD GLU D 154 52.947 20.401 8.875 1.00 42.39 D
ATOM 5212 OE1 GLU D 154 53.063 20.068 10.065 1.00 41.72 D
ATOM 5213 OE2 GLU D 154 52.781 21.586 8.523 1.00 38.28 D

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ATOM   5214  C   GLU D 154      53.563  16.261   7.758  1.00 36.32      D
ATOM   5215  O   GLU D 154      53.231  15.542   6.808  1.00 38.63      D
ATOM   5216  N   TYR D 155      54.834  16.513   8.075  1.00 38.81      D
ATOM   5217  CA  TYR D 155      55.946  15.944   7.310  1.00 41.83      D
ATOM   5218  CB  TYR D 155      57.195  16.822   7.434  1.00 40.02      D
ATOM   5219  CG  TYR D 155      57.033  18.250   6.973  1.00 40.11      D
ATOM   5220  CD1 TYR D 155      56.801  18.554   5.641  1.00 34.37      D
ATOM   5221  CE1 TYR D 155      56.665  19.872   5.226  1.00 37.88      D
ATOM   5222  CD2 TYR D 155      57.125  19.299   7.879  1.00 37.75      D
ATOM   5223  CE2 TYR D 155      56.991  20.612   7.479  1.00 38.56      D
ATOM   5224  CZ  TYR D 155      56.759  20.895   6.156  1.00 44.84      D
ATOM   5225  OH  TYR D 155      56.588  22.204   5.783  1.00 38.37      D
ATOM   5226  C   TYR D 155      56.240  14.557   7.871  1.00 37.95      D
ATOM   5227  O   TYR D 155      56.178  14.357   9.074  1.00 37.26      D
ATOM   5228  N   VAL D 156      56.577  13.608   7.012  1.00 39.36      D
ATOM   5229  CA  VAL D 156      56.832  12.245   7.459  1.00 39.20      D
ATOM   5230  CB  VAL D 156      55.930  11.262   6.646  1.00 42.32      D
ATOM   5231  CG1 VAL D 156      56.770  10.178   5.987  1.00 26.58      D
ATOM   5232  CG2 VAL D 156      54.857  10.660   7.531  1.00 25.97      D
ATOM   5233  C   VAL D 156      58.304  11.831   7.345  1.00 40.38      D
ATOM   5234  O   VAL D 156      58.944  12.060   6.319  1.00 37.73      D
ATOM   5235  N   ARG D 157      58.845  11.232   8.402  1.00 42.75      D
ATOM   5236  CA  ARG D 157      60.233  10.782   8.370  1.00 50.15      D
ATOM   5237  CB  ARG D 157      60.646  10.206   9.729  1.00 45.70      D
ATOM   5238  CG  ARG D 157      61.022  11.252  10.760  1.00 52.92      D
ATOM   5239  CD  ARG D 157      62.352  11.905  10.405  1.00 51.21      D
ATOM   5240  NE  ARG D 157      63.529  11.215  10.953  1.00 50.03      D
ATOM   5241  CZ  ARG D 157      64.005  11.390  12.190  1.00 52.11      D
ATOM   5242  NH1 ARG D 157      63.415  12.226  13.037  1.00 43.31      D
ATOM   5243  NH2 ARG D 157      65.101  10.752  12.578  1.00 49.02      D
ATOM   5244  C   ARG D 157      60.245   9.692   7.319  1.00 51.77      D
ATOM   5245  O   ARG D 157      59.213   9.091   7.074  1.00 48.59      D
ATOM   5246  N   ASP D 158      61.378   9.436   6.678  1.00 58.63      D
ATOM   5247  CA  ASP D 158      61.399   8.379   5.677  1.00 69.91      D
ATOM   5248  CB  ASP D 158      62.135   8.813   4.407  1.00 69.10      D
ATOM   5249  CG  ASP D 158      61.256   9.625   3.457  1.00 77.38      D
ATOM   5250  OD1 ASP D 158      60.064   9.262   3.268  1.00 76.81      D
ATOM   5251  OD2 ASP D 158      61.774  10.616   2.888  1.00 73.95      D
ATOM   5252  C   ASP D 158      62.068   7.155   6.249  1.00 72.68      D
ATOM   5253  O   ASP D 158      61.418   6.153   6.535  1.00 70.96      D
ATOM   5254  N   ALA D 159      63.377   7.227   6.414  1.00 79.64      D
ATOM   5255  CA  ALA D 159      64.100   6.100   6.973  1.00 91.55      D
ATOM   5256  CB  ALA D 159      65.574   6.139   6.521  1.00 88.73      D
ATOM   5257  C   ALA D 159      63.984   6.132   8.512  1.00 98.15      D
ATOM   5258  O   ALA D 159      63.969   7.213   9.134  1.00100.71      D
ATOM   5259  N   ALA D 160      63.886   4.941   9.109  1.00103.11      D
ATOM   5260  CA  ALA D 160      63.759   4.778  10.561  1.00105.43      D
ATOM   5261  CB  ALA D 160      62.295   4.487  10.923  1.00102.89      D
ATOM   5262  C   ALA D 160      64.669   3.665  11.113  1.00105.49      D
ATOM   5263  O   ALA D 160      65.572   3.196  10.378  1.00106.26      D
ATOM   5264  OXT ALA D 160      64.468   3.279  12.287  1.00101.20      D
ATOM   5265  C1S SIA   901      42.912  -7.930  -3.931  1.00 71.64
ATOM   5266  O1S SIA   901      42.794  -7.171  -4.904  1.00 71.64
ATOM   5267  O1T SIA   901      41.918  -8.250  -3.046  1.00 71.64
ATOM   5268  C2S SIA   901      44.327  -8.627  -3.600  1.00 71.64
ATOM   5269  C6S SIA   901      44.767  -9.738  -5.851  1.00 71.64
ATOM   5270  O6S SIA   901      45.157  -8.761  -4.822  1.00 71.64
ATOM   5271  C3S SIA   901      44.129 -10.055  -2.980  1.00 71.64
ATOM   5272  C4S SIA   901      43.599 -11.055  -4.025  1.00 71.64
ATOM   5273  O4S SIA   901      43.372 -12.340  -3.452  1.00 71.64
ATOM   5274  C5S SIA   901      44.636 -11.131  -5.159  1.00 71.64
ATOM   5275  N5S SIA   901      44.228 -12.177  -6.112  1.00 71.64
ATOM   5276  C5U SIA   901      44.758 -13.429  -6.223  1.00 71.64
ATOM   5277  O5V SIA   901      44.316 -14.237  -7.019  1.00 71.64
ATOM   5278  C5W SIA   901      45.932 -13.829  -5.310  1.00 71.64
ATOM   5279  C7S SIA   901      45.850  -9.696  -6.987  1.00 71.64
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ATOM   5280  O7S SIA   901      47.135  -9.962  -6.408  1.00 71.64
ATOM   5281  C8S SIA   901      45.837  -8.316  -7.727  1.00 71.64
ATOM   5282  O8S SIA   901      44.590  -8.074  -8.362  1.00 71.64
ATOM   5283  C9S SIA   901      46.918  -8.176  -8.833  1.00 71.64
ATOM   5284  O9S SIA   901      46.542  -8.985  -9.930  1.00 71.64
ATOM   5285  C1G GAL   902      47.063  -4.616  -2.905  1.00 71.64
ATOM   5286  C2G GAL   902      46.866  -6.151  -2.656  1.00 71.64
ATOM   5287  C3G GAL   902      45.377  -6.485  -2.884  1.00 71.64
ATOM   5288  C4G GAL   902      44.525  -5.642  -1.916  1.00 71.64
ATOM   5289  C5G GAL   902      44.775  -4.134  -2.171  1.00 71.64
ATOM   5290  C6G GAL   902      43.998  -3.248  -1.191  1.00 71.64
ATOM   5291  O5G GAL   902      46.184  -3.858  -2.041  1.00 71.64
ATOM   5292  O2G GAL   902      47.650  -6.917  -3.553  1.00 71.64
ATOM   5293  O3G GAL   902      45.100  -7.878  -2.617  1.00 71.64
ATOM   5294  O4G GAL   902      44.923  -6.037  -0.613  1.00 71.64
ATOM   5295  O6G GAL   902      42.653  -3.678  -1.048  1.00 71.64
ATOM   5296  C1N NAG   903      51.564  -1.831  -3.759  1.00 71.64
ATOM   5297  C2N NAG   903      50.674  -1.187  -2.662  1.00 71.64
ATOM   5298  N2N NAG   903      51.557  -0.588  -1.658  1.00 71.64
ATOM   5299  C3N NAG   903      49.739  -2.275  -2.046  1.00 71.64
ATOM   5300  C4N NAG   903      48.919  -3.040  -3.173  1.00 71.64
ATOM   5301  C5N NAG   903      49.877  -3.433  -4.382  1.00 71.64
ATOM   5302  C6N NAG   903      49.230  -3.962  -5.694  1.00 71.64
ATOM   5303  O1N NAG   903      52.636  -1.030  -4.331  1.00 71.64
ATOM   5304  CNN NAG   903      52.245   0.115  -5.101  1.00 71.64
ATOM   5305  O5N NAG   903      50.685  -2.320  -4.791  1.00 71.64
ATOM   5306  O3N NAG   903      48.829  -1.651  -1.092  1.00 71.64
ATOM   5307  O4N NAG   903      48.410  -4.268  -2.610  1.00 71.64
ATOM   5308  O6N NAG   903      47.845  -3.678  -5.779  1.00 71.64
ATOM   5309  C7N NAG   903      51.305   0.638  -1.148  1.00 71.64
ATOM   5310  O7N NAG   903      50.320   1.338  -1.418  1.00 71.64
ATOM   5311  C8N NAG   903      52.388   1.098  -0.156  1.00 71.64
ATOM   5312  C1F FUC   904      49.190  -1.723   0.315  1.00 71.64
ATOM   5313  C2F FUC   904      47.992  -1.189   1.153  1.00 71.64
ATOM   5314  C3F FUC   904      46.804  -2.189   1.096  1.00 71.64
ATOM   5315  C4F FUC   904      47.261  -3.588   1.567  1.00 71.64
ATOM   5316  C5F FUC   904      48.465  -4.079   0.710  1.00 71.64
ATOM   5317  C6F FUC   904      49.031  -5.442   1.131  1.00 71.64
ATOM   5318  O5F FUC   904      49.516  -3.079   0.758  1.00 71.64
ATOM   5319  O2F FUC   904      47.647   0.084   0.647  1.00 71.64
ATOM   5320  O3F FUC   904      45.756  -1.819   1.960  1.00 71.64
ATOM   5321  O4F FUC   904      47.652  -3.462   2.922  1.00 71.64
ATOM   5322  C1S SIA   905      70.817  18.760  41.383  1.00 71.64
ATOM   5323  O1S SIA   905      71.865  18.378  41.918  1.00 71.64
ATOM   5324  O1T SIA   905      69.664  19.070  42.045  1.00 71.64
ATOM   5325  C2S SIA   905      70.724  18.932  39.773  1.00 71.64
ATOM   5326  C6S SIA   905      72.899  20.153  39.600  1.00 71.64
ATOM   5327  O6S SIA   905      72.068  19.027  39.187  1.00 71.64
ATOM   5328  C3S SIA   905      69.958  20.228  39.357  1.00 71.64
ATOM   5329  C4S SIA   905      70.718  21.477  39.844  1.00 71.64
ATOM   5330  O4S SIA   905      70.049  22.652  39.449  1.00 71.64
ATOM   5331  C5S SIA   905      72.163  21.479  39.272  1.00 71.64
ATOM   5332  N5S SIA   905      72.937  22.591  39.866  1.00 71.64
ATOM   5333  C5U SIA   905      73.737  23.513  39.247  1.00 71.64
ATOM   5334  O5V SIA   905      74.417  24.304  39.896  1.00 71.64
ATOM   5335  C5W SIA   905      73.786  23.551  37.699  1.00 71.64
ATOM   5336  C7S SIA   905      74.255  20.045  38.869  1.00 71.64
ATOM   5337  O7S SIA   905      73.977  19.716  37.515  1.00 71.64
ATOM   5338  C8S SIA   905      75.218  18.991  39.536  1.00 71.64
ATOM   5339  O8S SIA   905      75.420  19.237  40.929  1.00 71.64
ATOM   5340  C9S SIA   905      76.633  18.986  38.933  1.00 71.64
ATOM   5341  O9S SIA   905      77.061  20.344  38.842  1.00 71.64
ATOM   5342  C1G GAL   906      71.268  14.442  37.888  1.00 71.64
ATOM   5343  C2G GAL   906      70.746  15.904  37.790  1.00 71.64
ATOM   5344  C3G GAL   906      70.645  16.513  39.212  1.00 71.64
ATOM   5345  C4G GAL   906      69.791  15.597  40.134  1.00 71.64
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ATOM	5346	C5G GAL	906	70.396	14.162	40.146	1.00	71.64
ATOM	5347	C6G GAL	906	69.574	13.152	40.960	1.00	71.64
ATOM	5348	O5G GAL	906	70.474	13.678	38.799	1.00	71.64
ATOM	5349	O2G GAL	906	71.636	16.707	37.029	1.00	71.64
ATOM	5350	O3G GAL	906	70.024	17.830	39.142	1.00	71.64
ATOM	5351	O4G GAL	906	68.480	15.629	39.585	1.00	71.64
ATOM	5352	O6G GAL	906	69.466	13.502	42.322	1.00	71.64
ATOM	5353	C1N NAG	907	73.304	10.705	34.702	1.00	71.64
ATOM	5354	C2N NAG	907	72.194	10.250	35.696	1.00	71.64
ATOM	5355	N2N NAG	907	71.478	9.137	35.040	1.00	71.64
ATOM	5356	C3N NAG	907	71.239	11.449	36.003	1.00	71.64
ATOM	5357	C4N NAG	907	72.053	12.671	36.518	1.00	71.64
ATOM	5358	C5N NAG	907	73.199	13.007	35.493	1.00	71.64
ATOM	5359	C6N NAG	907	74.185	14.148	35.859	1.00	71.64
ATOM	5360	O1N NAG	907	74.246	9.681	34.285	1.00	71.64
ATOM	5361	CNN NAG	907	75.226	9.279	35.253	1.00	71.64
ATOM	5362	O5N NAG	907	74.013	11.841	35.268	1.00	71.64
ATOM	5363	O3N NAG	907	70.277	11.036	36.983	1.00	71.64
ATOM	5364	O4N NAG	907	71.198	13.803	36.618	1.00	71.64
ATOM	5365	O6N NAG	907	74.435	14.211	37.245	1.00	71.64
ATOM	5366	C7N NAG	907	71.057	8.009	35.679	1.00	71.64
ATOM	5367	O7N NAG	907	71.230	7.732	36.876	1.00	71.64
ATOM	5368	C8N NAG	907	70.288	7.074	34.735	1.00	71.64
ATOM	5369	C1F FUC	908	68.997	10.769	36.423	1.00	71.64
ATOM	5370	C2F FUC	908	68.165	9.851	37.371	1.00	71.64
ATOM	5371	C3F FUC	908	67.779	10.612	38.639	1.00	71.64
ATOM	5372	C4F FUC	908	67.045	11.908	38.267	1.00	71.64
ATOM	5373	C5F FUC	908	67.938	12.772	37.341	1.00	71.64
ATOM	5374	C6F FUC	908	67.272	14.073	36.891	1.00	71.64
ATOM	5375	O5F FUC	908	68.290	11.995	36.183	1.00	71.64
ATOM	5376	O2F FUC	908	68.910	8.700	37.682	1.00	71.64
ATOM	5377	O3F FUC	908	66.890	9.865	39.413	1.00	71.64
ATOM	5378	O4F FUC	908	65.874	11.528	37.578	1.00	71.64
ATOM	5379	C1S SIA	909	33.640	37.270	47.754	1.00	71.64
ATOM	5380	O1S SIA	909	32.887	38.140	47.274	1.00	71.64
ATOM	5381	O1T SIA	909	34.274	36.288	47.059	1.00	71.64
ATOM	5382	C2S SIA	909	33.957	37.221	49.322	1.00	71.64
ATOM	5383	C6S SIA	909	33.350	39.626	49.733	1.00	71.64
ATOM	5384	O6S SIA	909	33.135	38.208	50.030	1.00	71.64
ATOM	5385	C3S SIA	909	35.460	37.560	49.622	1.00	71.64
ATOM	5386	C4S SIA	909	35.778	39.031	49.251	1.00	71.64
ATOM	5387	O4S SIA	909	37.128	39.350	49.518	1.00	71.64
ATOM	5388	C5S SIA	909	34.842	40.000	50.037	1.00	71.64
ATOM	5389	N5S SIA	909	35.147	41.384	49.606	1.00	71.64
ATOM	5390	C5U SIA	909	36.041	42.285	50.132	1.00	71.64
ATOM	5391	O5V SIA	909	36.229	43.374	49.601	1.00	71.64
ATOM	5392	C5W SIA	909	36.833	41.924	51.400	1.00	71.64
ATOM	5393	C7S SIA	909	32.268	40.376	50.547	1.00	71.64
ATOM	5394	O7S SIA	909	32.573	40.213	51.929	1.00	71.64
ATOM	5395	C8S SIA	909	30.860	39.790	50.160	1.00	71.64
ATOM	5396	O8S SIA	909	30.576	40.019	48.780	1.00	71.64
ATOM	5397	C9S SIA	909	29.666	40.367	50.968	1.00	71.64
ATOM	5398	O9S SIA	909	29.223	41.554	50.341	1.00	71.64
ATOM	5399	C1G GAL	910	30.513	34.235	51.208	1.00	71.64
ATOM	5400	C2G GAL	910	31.997	34.766	51.291	1.00	71.64
ATOM	5401	C3G GAL	910	32.336	35.396	49.911	1.00	71.64
ATOM	5402	C4G GAL	910	32.181	34.326	48.801	1.00	71.64
ATOM	5403	C5G GAL	910	30.749	33.682	48.815	1.00	71.64
ATOM	5404	C6G GAL	910	30.611	32.494	47.839	1.00	71.64
ATOM	5405	O5G GAL	910	30.423	33.226	50.162	1.00	71.64
ATOM	5406	O2G GAL	910	32.150	35.773	52.284	1.00	71.64
ATOM	5407	O3G GAL	910	33.706	35.892	49.895	1.00	71.64
ATOM	5408	O4G GAL	910	33.205	33.384	49.055	1.00	71.64
ATOM	5409	O6G GAL	910	30.610	32.908	46.480	1.00	71.64
ATOM	5410	C1N NAG	911	26.393	32.719	54.378	1.00	71.64
ATOM	5411	C2N NAG	911	27.093	31.546	53.632	1.00	71.64

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ATOM   5412  N2N NAG   911      26.976  30.327  54.450  1.00 71.64
ATOM   5413  C3N NAG   911      28.594  31.890  53.334  1.00 71.64
ATOM   5414  C4N NAG   911      28.680  33.246  52.546  1.00 71.64
ATOM   5415  C5N NAG   911      27.811  34.368  53.276  1.00 71.64
ATOM   5416  C6N NAG   911      27.592  35.696  52.509  1.00 71.64
ATOM   5417  O1N NAG   911      25.010  32.466  54.712  1.00 71.64
ATOM   5418  CNN NAG   911      24.247  33.604  55.131  1.00 71.64
ATOM   5419  O5N NAG   911      26.482  33.897  53.551  1.00 71.64
ATOM   5420  O3N NAG   911      29.143  30.846  52.518  1.00 71.64
ATOM   5421  O4N NAG   911      30.086  33.654  52.471  1.00 71.64
ATOM   5422  O6N NAG   911      26.851  35.491  51.315  1.00 71.64
ATOM   5423  C7N NAG   911      26.290  29.218  54.040  1.00 71.64
ATOM   5424  O7N NAG   911      25.624  29.105  52.999  1.00 71.64
ATOM   5425  C8N NAG   911      26.439  28.057  55.036  1.00 71.64
ATOM   5426  C1F FUC   912      30.001  29.903  53.162  1.00 71.64
ATOM   5427  C2F FUC   912      30.085  28.653  52.222  1.00 71.64
ATOM   5428  C3F FUC   912      30.777  29.061  50.881  1.00 71.64
ATOM   5429  C4F FUC   912      32.177  29.668  51.171  1.00 71.64
ATOM   5430  C5F FUC   912      32.050  30.880  52.151  1.00 71.64
ATOM   5431  C6F FUC   912      33.400  31.486  52.552  1.00 71.64
ATOM   5432  O5F FUC   912      31.334  30.459  53.352  1.00 71.64
ATOM   5433  O2F FUC   912      28.768  28.162  52.019  1.00 71.64
ATOM   5434  O3F FUC   912      30.997  27.947  50.040  1.00 71.64
ATOM   5435  O4F FUC   912      32.982  28.643  51.773  1.00 71.64
ATOM   5436  C1  MPD   805      59.788  27.403   1.303  1.00 34.10
ATOM   5437  C2  MPD   805      60.835  26.283   1.240  1.00 31.93
ATOM   5438  C3  MPD   805      61.103  25.654   2.603  1.00 39.20
ATOM   5439  C4  MPD   805      61.531  26.659   3.673  1.00 32.74
ATOM   5440  C5  MPD   805      61.298  26.125   5.082  1.00 30.35
ATOM   5441  CM  MPD   805      60.381  25.227   0.225  1.00 34.74
ATOM   5442  O2  MPD   805      62.039  26.809   0.773  1.00 43.78
ATOM   5443  O4  MPD   805      62.894  26.940   3.516  1.00 36.70
ATOM   5444  C1  MPD   806      15.613  -4.827   1.443  1.00 45.43
ATOM   5445  C2  MPD   806      17.097  -5.207   1.613  1.00 44.78
ATOM   5446  C3  MPD   806      17.431  -5.762   3.012  1.00 36.63
ATOM   5447  C4  MPD   806      17.720  -4.733   4.119  1.00 31.14
ATOM   5448  C5  MPD   806      17.781  -5.399   5.489  1.00 23.43
ATOM   5449  CM  MPD   806      17.487  -6.243   0.564  1.00 43.95
ATOM   5450  O2  MPD   806      17.894  -4.077   1.362  1.00 42.43
ATOM   5451  O4  MPD   806      18.960  -4.114   3.880  1.00 30.78
ATOM   5452 CA+2 CA2   801      46.017  -1.429   4.628  1.00 28.47
ATOM   5453 CA+2 CA2   802      64.889   8.971  39.402  1.00 44.65
ATOM   5454 CA+2 CA2   803      86.045  11.783   3.562  1.00 68.42
ATOM   5455 CA+2 CA2   804      33.093  26.150  49.473  1.00 86.10
END
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Figure 4

		Atom Type	Residue		X	Y	Z	OCC	B
ATOM	1	CB	TRP	1	46.496	90.270	32.323	1.00	9.91
ATOM	2	CG	TRP	1	45.175	90.843	31.831	1.00	10.89
ATOM	3	CD2	TRP	1	44.968	91.590	30.625	1.00	11.03
ATOM	4	CE2	TRP	1	43.607	91.971	30.592	1.00	10.58
ATOM	5	CE3	TRP	1	45.804	91.976	29.568	1.00	11.45
ATOM	6	CD1	TRP	1	43.960	90.802	32.464	1.00	10.57
ATOM	7	NE1	TRP	1	43.015	91.477	31.725	1.00	11.45
ATOM	8	CZ2	TRP	1	43.062	92.719	29.542	1.00	12.55
ATOM	9	CZ3	TRP	1	45.264	92.720	28.525	1.00	11.46
ATOM	10	CH2	TRP	1	43.904	93.084	28.521	1.00	10.29
ATOM	11	C	TRP	1	45.875	89.143	34.473	1.00	10.37
ATOM	12	O	TRP	1	44.718	88.838	34.753	1.00	10.62
ATOM	13	N	TRP	1	45.594	87.943	32.295	1.00	9.64
ATOM	14	CA	TRP	1	46.417	88.919	33.067	1.00	8.80
ATOM	15	N	SER	2	46.731	89.655	35.354	1.00	8.67
ATOM	16	CA	SER	2	46.338	89.954	36.729	1.00	10.80
ATOM	17	CB	SER	2	47.168	89.140	37.732	1.00	12.67
ATOM	18	OG	SER	2	48.557	89.251	37.495	1.00	11.53
ATOM	19	C	SER	2	46.508	91.451	36.959	1.00	10.95
ATOM	20	O	SER	2	47.247	92.119	36.235	1.00	10.37
ATOM	21	N	TYR	3	45.829	91.973	37.972	1.00	9.12
ATOM	22	CA	TYR	3	45.841	93.405	38.241	1.00	9.79
ATOM	23	CB	TYR	3	44.400	93.917	38.244	1.00	10.18
ATOM	24	CG	TYR	3	43.590	93.573	37.008	1.00	8.77
ATOM	25	CD1	TYR	3	43.707	94.324	35.840	1.00	9.50
ATOM	26	CE1	TYR	3	42.921	94.047	34.723	1.00	10.12
ATOM	27	CD2	TYR	3	42.669	92.523	37.024	1.00	10.22
ATOM	28	CE2	TYR	3	41.879	92.238	35.912	1.00	11.08
ATOM	29	CZ	TYR	3	42.007	93.008	34.765	1.00	8.82
ATOM	30	OH	TYR	3	41.202	92.760	33.678	1.00	10.64
ATOM	31	C	TYR	3	46.503	93.834	39.547	1.00	9.92
ATOM	32	O	TYR	3	46.487	93.106	40.540	1.00	12.14
ATOM	33	N	ASN	4	47.071	95.037	39.532	1.00	9.86
ATOM	34	CA	ASN	4	47.714	95.618	40.705	1.00	11.26
ATOM	35	CB	ASN	4	49.205	95.274	40.742	1.00	14.10
ATOM	36	CG	ASN	4	49.456	93.822	41.085	1.00	17.76
ATOM	37	OD1	ASN	4	49.663	92.987	40.206	1.00	17.30
ATOM	38	ND2	ASN	4	49.423	93.510	42.377	1.00	21.80
ATOM	39	C	ASN	4	47.536	97.128	40.675	1.00	11.78
ATOM	40	O	ASN	4	47.323	97.713	39.614	1.00	14.32
ATOM	41	N	THR	5	47.619	97.763	41.839	1.00	12.02
ATOM	42	CA	THR	5	47.454	99.211	41.918	1.00	13.95
ATOM	43	CB	THR	5	46.089	99.586	42.525	1.00	15.31
ATOM	44	OG1	THR	5	45.985	99.029	43.842	1.00	17.21
ATOM	45	CG2	THR	5	44.953	99.059	41.659	1.00	16.84
ATOM	46	C	THR	5	48.526	99.854	42.788	1.00	14.11
ATOM	47	O	THR	5	49.170	99.187	43.592	1.00	14.93
ATOM	48	N	SER	6	48.724	101.155	42.616	1.00	14.40
ATOM	49	CA	SER	6	49.689	101.866	43.441	1.00	11.60
ATOM	50	CB	SER	6	50.239	103.095	42.712	1.00	12.30
ATOM	51	OG	SER	6	49.230	104.083	42.526	1.00	12.87
ATOM	52	C	SER	6	48.927	102.312	44.678	1.00	14.63
ATOM	53	O	SER	6	47.696	102.278	44.703	1.00	15.25
ATOM	54	N	THR	7	49.657	102.723	45.708	1.00	15.17
ATOM	55	CA	THR	7	49.026	103.193	46.930	1.00	19.60
ATOM	56	CB	THR	7	49.828	102.758	48.174	1.00	25.04
ATOM	57	OG1	THR	7	49.886	101.327	48.226	1.00	29.51
ATOM	58	CG2	THR	7	49.168	103.274	49.442	1.00	27.82
ATOM	59	C	THR	7	48.949	104.717	46.883	1.00	18.41
ATOM	60	O	THR	7	47.986	105.317	47.359	1.00	24.75
ATOM	61	N	GLU	8	49.965	105.328	46.285	1.00	19.08
ATOM	62	CA	GLU	8	50.035	106.780	46.171	1.00	20.66
ATOM	63	CB	GLU	8	51.486	107.248	46.287	1.00	26.19
ATOM	64	CG	GLU	8	52.186	106.820	47.562	1.00	36.49
ATOM	65	CD	GLU	8	51.546	107.411	48.798	1.00	43.08

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ATOM     66  OE1 GLU     8      51.481 108.655  48.893  1.00 47.87
ATOM     67  OE2 GLU     8      51.108 106.633  49.672  1.00 47.01
ATOM     68  C   GLU     8      49.473 107.259  44.843  1.00 21.03
ATOM     69  O   GLU     8      49.561 106.561  43.833  1.00 19.06
ATOM     70  N   ALA     9      48.888 108.452  44.855  1.00 20.80
ATOM     71  CA  ALA     9      48.342 109.044  43.643  1.00 18.32
ATOM     72  CB  ALA     9      47.275 110.069  43.993  1.00 18.58
ATOM     73  C   ALA     9      49.512 109.712  42.931  1.00 20.73
ATOM     74  O   ALA-    9      50.378 110.307  43.574  1.00 21.18
ATOM     75  N   MET—   10      49.545 109.609  41.609  1.00 16.38
ATOM     76  CA  MET    10      50.626 110.192  40.829  1.00 14.85
ATOM     77  CB  MET    10      51.754 109.166  40.671  1.00 23.16
ATOM     78  CG  MET    10      51.283 107.804  40.180  1.00 20.51
ATOM     79  SD  MET    10      52.546 106.506  40.285  1.00 20.39
ATOM     80  CE  MET    10      52.256 105.889  41.925  1.00 25.93
ATOM     81  C   MET    10      50.129 110.655  39.467  1.00 16.16
ATOM     82  O   MET    10      48.988 110.382  39.091  1.00 15.83
ATOM     83  N   THR    11      50.975 111.375  38.736  1.00 16.39
ATOM     84  CA  THR    11      50.598 111.865  37.415  1.00 16.60
ATOM     85  CB  THR    11      51.646 112.842  36.846  1.00 20.88
ATOM     86  OG1 THR    11      52.876 112.144  36.612  1.00 18.25
ATOM     87  CG2 THR    11      51.885 113.990  37.815  1.00 19.29
ATOM     88  C   THR    11      50.506 110.676  36.473  1.00 16.61
ATOM     89  O   THR    11      50.935 109.573  36.818  1.00 15.79
ATOM     90  N   TYR    12      49.950 110.886  35.286  1.00 16.92
ATOM     91  CA  TYR    12      49.853 109.784  34.346  1.00 14.15
ATOM     92  CB  TYR    12      49.136 110.206  33.061  1.00 13.90
ATOM     93  CG  TYR    12      49.232 109.152  31.978  1.00 13.57
ATOM     94  CD1 TYR    12      50.339 109.098  31.131  1.00 15.18
ATOM     95  CE1 TYR    12      50.473 108.089  30.185  1.00 15.19
ATOM     96  CD2 TYR    12      48.254 108.169  31.845  1.00 14.87
ATOM     97  CE2 TYR    12      48.379 107.155  30.902  1.00 13.70
ATOM     98  CZ  TYR    12      49.492 107.119  30.076  1.00 15.95
ATOM     99  OH  TYR    12      49.634 106.110  29.149  1.00 18.19
ATOM    100  C   TYR    12      51.240 109.251  34.011  1.00 16.85
ATOM    101  O   TYR    12      51.464 108.043  34.045  1.00 16.08
ATOM    102  N   ASP    13      52.175 110.145  33.695  1.00 18.25
ATOM    103  CA  ASP    13      53.529 109.714  33.359  1.00 17.79
ATOM    104  CB  ASP    13      54.426 110.915  33.041  1.00 21.68
ATOM    105  CG  ASP    13      54.034 111.611  31.756  1.00 25.18
ATOM    106  OD1 ASP    13      53.617 110.918  30.804  1.00 23.85
ATOM    107  OD2 ASP    13      54.159 112.851  31.691  1.00 32.68
ATOM    108  C   ASP    13      54.166 108.892  34.474  1.00 13.54
ATOM    109  O   ASP    13      54.856 107.912  34.205  1.00 16.73
ATOM    110  N   GLU    14      53.947 109.297  35.721  1.00 16.63
ATOM    111  CA  GLU    14      54.510 108.563  36.848  1.00 13.46
ATOM    112  CB  GLU    14      54.340 109.364  38.144  1.00 17.85
ATOM    113  CG  GLU    14      54.978 110.751  38.087  1.00 22.58
ATOM    114  CD  GLU    14      54.814 111.535  39.374  1.00 23.32
ATOM    115  OE1 GLU    14      53.701 111.544  39.940  1.00 21.26
ATOM    116  OE2 GLU    14      55.802 112.159  39.816  1.00 33.05
ATOM    117  C   GLU    14      53.819 107.203  36.968  1.00 15.53
ATOM    118  O   GLU    14      54.466 106.197  37.259  1.00 16.70
ATOM    119  N   ALA    15      52.512 107.177  36.723  1.00 15.62
ATOM    120  CA  ALA    15      51.744 105.936  36.806  1.00 12.93
ATOM    121  CB  ALA    15      50.246 106.230  36.704  1.00 14.06
ATOM    122  C   ALA    15      52.170 104.979  35.697  1.00 14.58
ATOM    123  O   ALA    15      52.277 103.774  35.911  1.00 14.22
ATOM    124  N   SER    16      52.413 105.522  34.510  1.00 12.96
ATOM    125  CA  SER    16      52.842 104.718  33.377  1.00 11.43
ATOM    126  CB  SER    16      52.982 105.602  32.134  1.00 13.37
ATOM    127  OG  SER    16      53.472 104.862  31.035  1.00 15.05
ATOM    128  C   SER    16      54.185 104.064  33.700  1.00 15.11
ATOM    129  O   SER    16      54.390 102.874  33.457  1.00 15.03
ATOM    130  N   ALA    17      55.099 104.859  34.249  1.00 16.04
ATOM    131  CA  ALA    17      56.424 104.366  34.612  1.00 15.61
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ATOM	132	CB	ALA	17	57.308	105.529	35.054	1.00	17.69
ATOM	133	C	ALA	17	56.340	103.322	35.722	1.00	14.21
ATOM	134	O	ALA	17	57.045	102.314	35.690	1.00	16.84
ATOM	135	N	TYR	18	55.478	103.581	36.701	1.00	12.99
ATOM	136	CA	TYR	18	55.286	102.687	37.840	1.00	13.80
ATOM	137	CB	TYR	18	54.240	103.297	38.790	1.00	13.63
ATOM	138	CG	TYR	18	53.818	102.417	39.949	1.00	13.87
ATOM	139	CD1	TYR	18	52.833	101.443	39.786	1.00	14.27
ATOM	140	CE1	TYR	18	52.431	100.639	40.852	1.00	14.88
ATOM	141	CD2	TYR	18	54.396	102.565	41.211	1.00	13.54
ATOM	142	CE2	TYR	18	54.003	101.762	42.284	1.00	15.87
ATOM	143	CZ	TYR	18	53.019	100.803	42.095	1.00	15.40
ATOM	144	OH	TYR	18	52.612	100.006	43.145	1.00	17.90
ATOM	145	C	TYR	18	54.857	101.296	37.383	1.00	13.50
ATOM	146	O	TYR	18	55.440	100.283	37.788	1.00	15.32
ATOM	147	N	CYS	19	53.846	101.249	36.525	1.00	13.78
ATOM	148	CA	CYS	19	53.337	99.981	36.025	1.00	10.95
ATOM	149	C	CYS	19	54.327	99.220	35.151	1.00	11.83
ATOM	150	O	CYS	19	54.413	97.998	35.228	1.00	11.58
ATOM	151	CB	CYS	19	52.050	100.209	35.239	1.00	12.72
ATOM	152	SG	CYS	19	50.600	100.743	36.202	1.00	12.61
ATOM	153	N	GLN	20	55.074	99.934	34.315	1.00	12.38
ATOM	154	CA	GLN	20	56.041	99.281	33.441	1.00	12.78
ATOM	155	CB	GLN	20	56.510	100.249	32.353	1.00	14.74
ATOM	156	CG	GLN	20	55.457	100.562	31.303	1.00	13.17
ATOM	157	CD	GLN	20	55.964	101.524	30.248	1.00	18.04
ATOM	158	OE1	GLN	20	55.846	102.741	30.392	1.00	23.77
ATOM	159	NE2	GLN	20	56.546	100.982	29.188	1.00	19.56
ATOM	160	C	GLN	20	57.251	98.749	34.200	1.00	12.04
ATOM	161	O	GLN	20	57.832	97.732	33.830	1.00	15.16
ATOM	162	N	GLN	21	57.633	99.443	35.262	1.00	13.47
ATOM	163	CA	GLN	21	58.781	99.018	36.045	1.00	15.03
ATOM	164	CB	GLN	21	59.238	100.162	36.952	1.00	16.50
ATOM	165	CG	GLN	21	60.681	100.052	37.426	1.00	31.91
ATOM	166	CD	GLN	21	60.826	99.264	38.705	1.00	36.45
ATOM	167	OE1	GLN	21	60.267	99.630	39.739	1.00	43.37
ATOM	168	NE2	GLN	21	61.587	98.177	38.649	1.00	43.15
ATOM	169	C	GLN	21	58.457	97.780	36.876	1.00	13.43
ATOM	170	O	GLN	21	59.251	96.847	36.942	1.00	15.69
ATOM	171	N	ARG	22	57.277	97.760	37.485	1.00	12.84
ATOM	172	CA	ARG	22	56.891	96.637	38.332	1.00	11.89
ATOM	173	CB	ARG	22	56.090	97.157	39.526	1.00	11.50
ATOM	174	CG	ARG	22	56.874	98.124	40.389	1.00	14.83
ATOM	175	CD	ARG	22	55.984	98.821	41.396	1.00	17.05
ATOM	176	NE	ARG	22	56.745	99.764	42.211	1.00	21.71
ATOM	177	CZ	ARG	22	57.357	100.843	41.733	1.00	19.74
ATOM	178	NH1	ARG	22	57.299	101.128	40.438	1.00	23.02
ATOM	179	NH2	ARG	22	58.034	101.638	42.551	1.00	20.27
ATOM	180	C	ARG	22	56.103	95.520	37.663	1.00	12.55
ATOM	181	O	ARG	22	56.332	94.345	37.942	1.00	13.20
ATOM	182	N	TYR	23	55.183	95.896	36.783	1.00	11.09
ATOM	183	CA	TYR	23	54.306	94.947	36.108	1.00	10.05
ATOM	184	CB	TYR	23	52.878	95.228	36.584	1.00	10.05
ATOM	185	CG	TYR	23	52.790	95.287	38.099	1.00	10.13
ATOM	186	CD1	TYR	23	52.994	94.145	38.867	1.00	11.87
ATOM	187	CE1	TYR	23	52.981	94.196	40.256	1.00	13.33
ATOM	188	CD2	TYR	23	52.565	96.493	38.765	1.00	10.27
ATOM	189	CE2	TYR	23	52.553	96.559	40.163	1.00	11.46
ATOM	190	CZ	TYR	23	52.764	95.402	40.898	1.00	10.77
ATOM	191	OH	TYR	23	52.769	95.435	42.277	1.00	15.00
ATOM	192	C	TYR	23	54.447	95.073	34.590	1.00	9.36
ATOM	193	O	TYR	23	55.554	95.230	34.095	1.00	11.78
ATOM	194	N	THR	24	53.354	94.984	33.841	1.00	9.61
ATOM	195	CA	THR	24	53.468	95.130	32.391	1.00	10.80
ATOM	196	CB	THR	24	52.485	94.202	31.647	1.00	10.79
ATOM	197	OG1	THR	24	52.845	92.839	31.898	1.00	11.15

ATOM	198	CG2	THR	24	52.544	94.457	30.139	1.00	14.00
ATOM	199	C	THR	24	53.223	96.577	31.966	1.00	12.16
ATOM	200	O	THR	24	54.082	97.199	31.336	1.00	12.42
ATOM	201	N	HIS	25	52.061	97.118	32.317	1.00	10.34
ATOM	202	CA	HIS	25	51.740	98.497	31.957	1.00	11.14
ATOM	203	CB	HIS	25	51.588	98.622	30.434	1.00	11.59
ATOM	204	CG	HIS	25	52.064	99.929	29.879	1.00	13.52
ATOM	205	CD2	HIS	25	52.792	100.212	28.773	1.00	14.64
ATOM	206	ND1	HIS-	25	51.778	101.142	30.469	1.00	13.62
ATOM	207	CE1	HIS—	25	52.311	102.115	29.751	1.00	15.55
ATOM	208	NE2	HIS	25	52.932	101.577	28.716	1.00	14.62
ATOM	209	C	HIS	25	50.430	98.892	32.621	1.00	13.12
ATOM	210	O	HIS	25	49.847	98.108	33.374	1.00	10.71
ATOM	211	N	LEU	26	49.984	100.118	32.356	1.00	12.30
ATOM	212	CA	LEU	26	48.711	100.590	32.879	1.00	10.69
ATOM	213	CB	LEU	26	48.499	102.064	32.533	1.00	11.51
ATOM	214	CG	LEU	26	49.196	103.056	33.471	1.00	12.05
ATOM	215	CD1	LEU	26	49.241	104.415	32.800	1.00	12.52
ATOM	216	CD2	LEU	26	48.460	103.136	34.806	1.00	12.48
ATOM	217	C	LEU	26	47.671	99.713	32.186	1.00	10.55
ATOM	218	O	LEU	26	47.862	99.292	31.045	1.00	10.12
ATOM	219	N	VAL	27	46.572	99.453	32.878	1.00	10.13
ATOM	220	CA	VAL	27	45.524	98.573	32.380	1.00	10.12
ATOM	221	CB	VAL	27	44.367	98.490	33.407	1.00	12.30
ATOM	222	CG1	VAL	27	43.621	99.816	33.463	1.00	13.10
ATOM	223	CG2	VAL	27	43.426	97.350	33.049	1.00	13.69
ATOM	224	C	VAL	27	44.918	98.842	31.003	1.00	10.00
ATOM	225	O	VAL	27	44.714	99.987	30.597	1.00	10.97
ATOM	226	N	ALA	28	44.663	97.750	30.290	1.00	10.21
ATOM	227	CA	ALA	28	44.014	97.777	28.985	1.00	10.01
ATOM	228	CB	ALA	28	44.837	97.012	27.956	1.00	11.02
ATOM	229	C	ALA	28	42.687	97.065	29.241	1.00	11.17
ATOM	230	O	ALA	28	42.647	96.082	29.985	1.00	12.07
ATOM	231	N	ILE	29	41.606	97.557	28.644	1.00	11.13
ATOM	232	CA	ILE	29	40.289	96.957	28.842	1.00	11.18
ATOM	233	CB	ILE	29	39.305	97.983	29.434	1.00	11.38
ATOM	234	CG2	ILE	29	37.921	97.353	29.603	1.00	11.52
ATOM	235	CG1	ILE	29	39.834	98.461	30.789	1.00	14.21
ATOM	236	CD1	ILE	29	38.994	99.541	31.454	1.00	13.16
ATOM	237	C	ILE	29	39.737	96.397	27.539	1.00	13.65
ATOM	238	O	ILE	29	39.720	97.079	26.518	1.00	14.19
ATOM	239	N	GLN	30	39.270	95.156	27.594	1.00	11.50
ATOM	240	CA	GLN	30	38.756	94.475	26.412	1.00	11.65
ATOM	241	CB	GLN	30	39.358	93.068	26.349	1.00	11.21
ATOM	242	CG	GLN	30	40.877	93.067	26.380	1.00	12.20
ATOM	243	CD	GLN	30	41.466	91.673	26.405	1.00	11.38
ATOM	244	OE1	GLN	30	42.268	91.319	25.545	1.00	15.44
ATOM	245	NE2	GLN	30	41.081	90.876	27.399	1.00	10.24
ATOM	246	C	GLN	30	37.241	94.368	26.313	1.00	14.01
ATOM	247	O	GLN	30	36.694	94.247	25.212	1.00	13.34
ATOM	248	N	ASN	31	36.561	94.415	27.451	1.00	11.97
ATOM	249	CA	ASN	31	35.115	94.267	27.457	1.00	12.68
ATOM	250	CB	ASN	31	34.762	92.794	27.246	1.00	12.14
ATOM	251	CG	ASN	31	35.459	91.884	28.243	1.00	12.28
ATOM	252	OD1	ASN	31	35.286	92.032	29.450	1.00	14.34
ATOM	253	ND2	ASN	31	36.257	90.943	27.742	1.00	15.47
ATOM	254	C	ASN	31	34.481	94.768	28.745	1.00	13.91
ATOM	255	O	ASN	31	35.175	95.182	29.675	1.00	14.18
ATOM	256	N	LYS	32	33.154	94.713	28.796	1.00	14.82
ATOM	257	CA	LYS	32	32.403	95.176	29.957	1.00	15.38
ATOM	258	CB	LYS	32	30.931	95.361	29.581	1.00	18.79
ATOM	259	CG	LYS	32	30.693	96.399	28.490	1.00	24.23
ATOM	260	CD	LYS	32	31.293	97.751	28.864	1.00	27.85
ATOM	261	CE	LYS	32	30.849	98.846	27.903	1.00	31.36
ATOM	262	NZ	LYS	32	31.234	98.568	26.490	1.00	34.61
ATOM	263	C	LYS	32	32.516	94.252	31.168	1.00	15.18

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ATOM	264	O	LYS	32	32.361	94.698	32.308	1.00	15.20
ATOM	265	N	GLU	33	32.778	92.969	30.927	1.00	14.30
ATOM	266	CA	GLU	33	32.923	92.020	32.024	1.00	13.55
ATOM	267	CB	GLU	33	33.098	90.597	31.487	1.00	19.41
ATOM	268	CG	GLU	33	31.847	90.012	30.838	1.00	30.86
ATOM	269	CD	GLU	33	31.378	90.809	29.635	1.00	43.29
ATOM	270	OE1	GLU	33	32.159	90.952	28.671	1.00	42.84
ATOM	271	OE2	GLU	33	30.225	91.289	29.653	1.00	47.77
ATOM	272	C	GLU-	33	34.130	92.412	32.871	1.00	14.21
ATOM	273	O	GLU-	33	34.099	92.314	34.097	1.00	13.93
ATOM	274	N	GLU	34	35.192	92.865	32.213	1.00	12.57
ATOM	275	CA	GLU	34	36.391	93.280	32.934	1.00	10.41
ATOM	276	CB	GLU	34	37.548	93.494	31.951	1.00	11.36
ATOM	277	CG	GLU	34	38.080	92.184	31.370	1.00	11.87
ATOM	278	CD	GLU	34	39.066	92.378	30.231	1.00	10.81
ATOM	279	OE1	GLU	34	39.485	93.528	29.980	1.00	12.26
ATOM	280	OE2	GLU	34	39.426	91.367	29.590	1.00	12.26
ATOM	281	C	GLU	34	36.122	94.544	33.746	1.00	11.00
ATOM	282	O	GLU	34	36.634	94.697	34.855	1.00	11.62
ATOM	283	N	ILE	35	35.311	95.444	33.201	1.00	11.07
ATOM	284	CA	ILE	35	34.976	96.678	33.900	1.00	12.03
ATOM	285	CB	ILE	35	34.192	97.635	32.982	1.00	13.80
ATOM	286	CG2	ILE	35	33.737	98.857	33.769	1.00	15.24
ATOM	287	CG1	ILE	35	35.075	98.042	31.799	1.00	16.91
ATOM	288	CD1	ILE	35	34.402	98.968	30.810	1.00	18.58
ATOM	289	C	ILE	35	34.144	96.357	35.142	1.00	13.18
ATOM	290	O	ILE	35	34.373	96.918	36.216	1.00	12.07
ATOM	291	N	GLU	36	33.188	95.445	34.997	1.00	12.41
ATOM	292	CA	GLU	36	32.342	95.062	36.122	1.00	13.67
ATOM	293	CB	GLU	36	31.255	94.095	35.647	1.00	14.87
ATOM	294	CG	GLU	36	30.311	93.619	36.741	1.00	20.39
ATOM	295	CD	GLU	36	29.144	92.819	36.188	1.00	28.65
ATOM	296	OE1	GLU	36	28.235	93.430	35.586	1.00	30.82
ATOM	297	OE2	GLU	36	29.139	91.581	36.348	1.00	25.64
ATOM	298	C	GLU	36	33.195	94.421	37.221	1.00	12.47
ATOM	299	O	GLU	36	32.991	94.683	38.407	1.00	12.17
ATOM	300	N	TYR	37	34.156	93.591	36.819	1.00	11.62
ATOM	301	CA	TYR	37	35.048	92.933	37.769	1.00	9.99
ATOM	302	CB	TYR	37	35.963	91.937	37.045	1.00	9.94
ATOM	303	CG	TYR	37	37.091	91.424	37.913	1.00	8.84
ATOM	304	CD1	TYR	37	36.852	90.500	38.929	1.00	11.94
ATOM	305	CE1	TYR	37	37.876	90.090	39.781	1.00	9.11
ATOM	306	CD2	TYR	37	38.389	91.922	37.766	1.00	10.46
ATOM	307	CE2	TYR	37	39.415	91.519	38.613	1.00	10.39
ATOM	308	CZ	TYR	37	39.151	90.605	39.617	1.00	9.03
ATOM	309	OH	TYR	37	40.162	90.215	40.464	1.00	11.46
ATOM	310	C	TYR	37	35.909	93.963	38.505	1.00	11.21
ATOM	311	O	TYR	37	36.007	93.943	39.731	1.00	12.30
ATOM	312	N	LEU	38	36.537	94.861	37.754	1.00	10.42
ATOM	313	CA	LEU	38	37.389	95.872	38.370	1.00	9.65
ATOM	314	CB	LEU	38	38.089	96.700	37.288	1.00	10.61
ATOM	315	CG	LEU	38	39.155	95.964	36.468	1.00	11.20
ATOM	316	CD1	LEU	38	39.572	96.821	35.278	1.00	10.99
ATOM	317	CD2	LEU	38	40.354	95.637	37.349	1.00	12.89
ATOM	318	C	LEU	38	36.605	96.785	39.306	1.00	10.43
ATOM	319	O	LEU	38	37.094	97.156	40.377	1.00	12.20
ATOM	320	N	ASN	39	35.385	97.138	38.915	1.00	10.04
ATOM	321	CA	ASN	39	34.572	98.015	39.750	1.00	10.43
ATOM	322	CB	ASN	39	33.328	98.481	38.999	1.00	11.24
ATOM	323	CG	ASN	39	32.594	99.579	39.736	1.00	13.36
ATOM	324	OD1	ASN	39	33.111	100.687	39.889	1.00	14.06
ATOM	325	ND2	ASN	39	31.390	99.275	40.212	1.00	14.87
ATOM	326	C	ASN	39	34.161	97.351	41.062	1.00	12.50
ATOM	327	O	ASN	39	33.849	98.038	42.038	1.00	13.52
ATOM	328	N	SER	40	34.148	96.021	41.086	1.00	12.87
ATOM	329	CA	SER	40	33.804	95.296	42.306	1.00	12.43

ATOM	330	CB	SER	40	33.193	93.923	41.983	1.00	12.19
ATOM	331	OG	SER	40	31.858	94.021	41.532	1.00	12.91
ATOM	332	C	SER	40	35.040	95.078	43.178	1.00	13.96
ATOM	333	O	SER	40	35.038	95.400	44.367	1.00	14.18
ATOM	334	N	ILE	41	36.105	94.554	42.579	1.00	11.43
ATOM	335	CA	ILE	41	37.320	94.242	43.330	1.00	12.26
ATOM	336	CB	ILE	41	38.242	93.297	42.501	1.00	12.68
ATOM	337	CG2	ILE	41	39.009	94.087	41.456	1.00	11.98
ATOM	338	CG1	ILE	41	39.214	92.558	43.423	1.00	15.60
ATOM	339	CD1	ILE	41	38.541	91.524	44.315	1.00	17.50
ATOM	340	C	ILE	41	38.159	95.418	43.851	1.00	14.13
ATOM	341	O	ILE	41	38.645	95.377	44.980	1.00	16.15
ATOM	342	N	LEU	42	38.326	96.460	43.044	1.00	11.40
ATOM	343	CA	LEU	42	39.150	97.600	43.446	1.00	10.93
ATOM	344	CB	LEU	42	39.507	98.447	42.223	1.00	12.29
ATOM	345	CG	LEU	42	40.283	97.772	41.088	1.00	11.60
ATOM	346	CD1	LEU	42	40.505	98.774	39.963	1.00	15.24
ATOM	347	CD2	LEU	42	41.614	97.258	41.608	1.00	14.04
ATOM	348	C	LEU	42	38.534	98.505	44.507	1.00	12.12
ATOM	349	O	LEU	42	37.357	98.840	44.443	1.00	14.36
ATOM	350	N	SER	43	39.347	98.914	45.475	1.00	13.14
ATOM	351	CA	SER	43	38.870	99.792	46.531	1.00	14.05
ATOM	352	CB	SER	43	39.893	99.876	47.666	1.00	17.12
ATOM	353	OG	SER	43	39.985	98.647	48.357	1.00	17.96
ATOM	354	C	SER	43	38.605	101.195	46.007	1.00	13.75
ATOM	355	O	SER	43	39.274	101.677	45.092	1.00	14.47
ATOM	356	N	TYR	44	37.622	101.853	46.602	1.00	14.23
ATOM	357	CA	TYR	44	37.286	103.209	46.212	1.00	14.91
ATOM	358	CB	TYR	44	36.003	103.658	46.909	1.00	14.06
ATOM	359	CG	TYR	44	35.739	105.142	46.762	1.00	15.13
ATOM	360	CD1	TYR	44	35.327	105.680	45.542	1.00	17.59
ATOM	361	CE1	TYR	44	35.122	107.051	45.392	1.00	19.01
ATOM	362	CD2	TYR	44	35.940	106.014	47.833	1.00	17.33
ATOM	363	CE2	TYR	44	35.741	107.383	47.693	1.00	21.41
ATOM	364	CZ	TYR	44	35.332	107.894	46.471	1.00	21.07
ATOM	365	OH	TYR	44	35.134	109.248	46.329	1.00	22.49
ATOM	366	C	TYR	44	38.398	104.181	46.582	1.00	15.81
ATOM	367	O	TYR	44	38.996	104.080	47.654	1.00	17.44
ATOM	368	N	SER	45	38.675	105.118	45.683	1.00	15.09
ATOM	369	CA	SER	45	39.668	106.154	45.931	1.00	15.94
ATOM	370	CB	SER	45	40.994	105.851	45.237	1.00	16.50
ATOM	371	OG	SER	45	41.874	106.959	45.374	1.00	21.02
ATOM	372	C	SER	45	39.106	107.451	45.374	1.00	17.36
ATOM	373	O	SER	45	38.705	107.508	44.214	1.00	15.21
ATOM	374	N	PRO	46	39.058	108.511	46.193	1.00	15.98
ATOM	375	CD	PRO	46	39.481	108.630	47.600	1.00	19.09
ATOM	376	CA	PRO	46	38.524	109.778	45.691	1.00	17.66
ATOM	377	CB	PRO	46	38.502	110.662	46.941	1.00	18.80
ATOM	378	CG	PRO	46	39.628	110.125	47.761	1.00	21.67
ATOM	379	C	PRO	46	39.363	110.362	44.556	1.00	16.17
ATOM	380	O	PRO	46	38.934	111.288	43.868	1.00	20.06
ATOM	381	N	SER	47	40.552	109.799	44.359	1.00	16.38
ATOM	382	CA	SER	47	41.460	110.241	43.306	1.00	17.46
ATOM	383	CB	SER	47	42.914	110.036	43.740	1.00	23.63
ATOM	384	OG	SER	47	43.204	110.740	44.933	1.00	25.97
ATOM	385	C	SER	47	41.216	109.447	42.026	1.00	13.93
ATOM	386	O	SER	47	41.677	109.829	40.950	1.00	15.58
ATOM	387	N	TYR	48	40.485	108.344	42.159	1.00	13.65
ATOM	388	CA	TYR	48	40.190	107.456	41.040	1.00	12.88
ATOM	389	CB	TYR	48	39.417	108.213	39.950	1.00	15.41
ATOM	390	CG	TYR	48	38.075	108.696	40.453	1.00	15.41
ATOM	391	CD1	TYR	48	37.134	107.792	40.944	1.00	16.47
ATOM	392	CE1	TYR	48	35.929	108.226	41.490	1.00	19.92
ATOM	393	CD2	TYR	48	37.776	110.057	40.510	1.00	20.30
ATOM	394	CE2	TYR	48	36.572	110.504	41.054	1.00	21.07
ATOM	395	CZ	TYR	48	35.656	109.581	41.544	1.00	24.83

ATOM	396	OH	TYR	48	34.477	110.009	42.106	1.00	28.31
ATOM	397	C	TYR	48	41.472	106.829	40.496	1.00	12.76
ATOM	398	O	TYR	48	42.535	106.940	41.118	1.00	13.62
ATOM	399	N	TYR	49	41.377	106.163	39.349	1.00	12.14
ATOM	400	CA	TYR	49	42.537	105.487	38.770	1.00	11.80
ATOM	401	CB	TYR	49	42.352	103.967	38.820	1.00	14.58
ATOM	402	CG	TYR	49	42.133	103.365	40.184	1.00	10.84
ATOM	403	CD1	TYR	49	40.911	103.494	40.846	1.00	11.75
ATOM	404	CE1	TYR	49	40.702	102.894	42.091	1.00	12.99
ATOM	405	CD2	TYR	49	43.142	102.630	40.801	1.00	11.39
ATOM	406	CE2	TYR	49	42.945	102.035	42.039	1.00	12.66
ATOM	407	CZ	TYR	49	41.728	102.167	42.675	1.00	11.45
ATOM	408	OH	TYR	49	41.542	101.548	43.888	1.00	13.76
ATOM	409	C	TYR	49	42.831	105.837	37.322	1.00	12.76
ATOM	410	O	TYR	49	41.917	106.053	36.530	1.00	12.89
ATOM	411	N	TRP	50	44.117	105.862	36.979	1.00	11.91
ATOM	412	CA	TRP	50	44.542	106.106	35.603	1.00	11.33
ATOM	413	CB	TRP	50	46.001	106.579	35.549	1.00	14.00
ATOM	414	CG	TRP	50	46.247	108.003	35.925	1.00	15.01
ATOM	415	CD2	TRP	50	45.672	109.164	35.313	1.00	15.61
ATOM	416	CE2	TRP	50	46.247	110.294	35.937	1.00	16.55
ATOM	417	CE3	TRP	50	44.727	109.360	34.295	1.00	12.82
ATOM	418	CD1	TRP	50	47.118	108.460	36.869	1.00	15.49
ATOM	419	NE1	TRP	50	47.127	109.836	36.883	1.00	17.15
ATOM	420	CZ2	TRP	50	45.908	111.604	35.577	1.00	19.04
ATOM	421	CZ3	TRP	50	44.391	110.664	33.936	1.00	15.15
ATOM	422	CH2	TRP	50	44.982	111.768	34.579	1.00	17.38
ATOM	423	C	TRP	50	44.483	104.770	34.859	1.00	13.01
ATOM	424	O	TRP	50	44.872	103.739	35.413	1.00	12.57
ATOM	425	N	ILE	51	43.988	104.774	33.623	1.00	11.42
ATOM	426	CA	ILE	51	43.991	103.552	32.828	1.00	12.27
ATOM	427	CB	ILE	51	42.577	103.154	32.301	1.00	10.82
ATOM	428	CG2	ILE	51	41.626	102.988	33.476	1.00	12.19
ATOM	429	CG1	ILE	51	42.035	104.186	31.312	1.00	11.62
ATOM	430	CD1	ILE	51	40.685	103.783	30.727	1.00	13.61
ATOM	431	C	ILE	51	44.978	103.784	31.681	1.00	11.78
ATOM	432	O	ILE	51	45.329	104.932	31.374	1.00	12.03
ATOM	433	N	GLY	52	45.434	102.700	31.057	1.00	11.62
ATOM	434	CA	GLY	52	46.429	102.817	30.003	1.00	10.99
ATOM	435	C	GLY	52	45.928	103.053	28.597	1.00	9.38
ATOM	436	O	GLY	52	45.974	102.157	27.761	1.00	11.46
ATOM	437	N	ILE	53	45.474	104.269	28.324	1.00	11.84
ATOM	438	CA	ILE	53	44.971	104.596	27.001	1.00	11.87
ATOM	439	CB	ILE	53	43.431	104.387	26.949	1.00	11.24
ATOM	440	CG2	ILE	53	42.725	105.538	27.661	1.00	12.78
ATOM	441	CG1	ILE	53	42.958	104.258	25.499	1.00	13.87
ATOM	442	CD1	ILE	53	41.493	103.864	25.377	1.00	16.05
ATOM	443	C	ILE	53	45.337	106.052	26.694	1.00	11.29
ATOM	444	O	ILE	53	45.349	106.893	27.588	1.00	13.53
ATOM	445	N	ARG	54	45.674	106.334	25.440	1.00	14.34
ATOM	446	CA	ARG	54	46.025	107.690	25.013	1.00	13.24
ATOM	447	CB	ARG	54	47.549	107.867	24.910	1.00	12.59
ATOM	448	CG	ARG	54	48.322	107.768	26.228	1.00	13.83
ATOM	449	CD	ARG	54	47.875	108.812	27.247	1.00	14.83
ATOM	450	NE	ARG	54	48.126	110.195	26.829	1.00	14.89
ATOM	451	CZ	ARG	54	49.253	110.860	27.075	1.00	19.84
ATOM	452	NH1	ARG	54	50.246	110.276	27.730	1.00	17.78
ATOM	453	NH2	ARG	54	49.378	112.124	26.692	1.00	17.83
ATOM	454	C	ARG	54	45.405	107.903	23.635	1.00	15.07
ATOM	455	O	ARG	54	45.105	106.936	22.938	1.00	13.51
ATOM	456	N	LYS	55	45.217	109.161	23.244	1.00	14.77
ATOM	457	CA	LYS	55	44.645	109.464	21.939	1.00	14.40
ATOM	458	CB	LYS	55	43.657	110.630	22.043	1.00	15.65
ATOM	459	CG	LYS	55	42.895	110.895	20.745	1.00	21.01
ATOM	460	CD	LYS	55	41.760	111.893	20.931	1.00	19.24
ATOM	461	CE	LYS	55	42.272	113.262	21.337	1.00	27.90

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ATOM    462  NZ  LYS    55      41.160 114.247  21.447  1.00 38.06
ATOM    463  C   LYS    55      45.795 109.806  20.990  1.00 14.80
ATOM    464  O   LYS    55      46.442 110.846  21.124  1.00 16.49
ATOM    465  N   VAL    56      46.043 108.903  20.047  1.00 13.95
ATOM    466  CA  VAL    56      47.125 109.034  19.077  1.00 16.56
ATOM    467  CB  VAL    56      47.990 107.754  19.056  1.00 17.55
ATOM    468  CG1 VAL    56      49.219 107.965  18.186  1.00 19.66
ATOM    469  CG2 VAL    56      48.394 107.371  20.478  1.00 19.72
ATOM    470  C   VAL-   56      46.542 109.251  17.685  1.00 15.75
ATOM    471  O   VAL-   56      45.855 108.381  17.150  1.00 16.18
ATOM    472  N   ASN    57      46.827 110.408  17.099  1.00 17.27
ATOM    473  CA  ASN    57      46.304 110.738  15.778  1.00 18.87
ATOM    474  CB  ASN    57      46.886 109.803  14.715  1.00 19.69
ATOM    475  CG  ASN    57      46.553 110.248  13.303  1.00 26.67
ATOM    476  OD1 ASN    57      46.503 109.434  12.382  1.00 29.51
ATOM    477  ND2 ASN    57      46.337 111.548  13.124  1.00 18.04
ATOM    478  C   ASN    57      44.784 110.599  15.807  1.00 18.67
ATOM    479  O   ASN    57      44.180 110.031  14.896  1.00 20.04
ATOM    480  N   ASN    58      44.185 111.106  16.881  1.00 16.68
ATOM    481  CA  ASN    58      42.739 111.087  17.090  1.00 18.23
ATOM    482  CB  ASN    58      42.038 111.826  15.945  1.00 19.64
ATOM    483  CG  ASN    58      40.654 112.306  16.329  1.00 27.43
ATOM    484  OD1 ASN    58      40.481 112.994  17.338  1.00 28.49
ATOM    485  ND2 ASN    58      39.658 111.948  15.526  1.00 35.58
ATOM    486  C   ASN    58      42.097 109.708  17.290  1.00 19.60
ATOM    487  O   ASN    58      40.875 109.568  17.208  1.00 21.89
ATOM    488  N   VAL    59      42.917 108.694  17.553  1.00 15.60
ATOM    489  CA  VAL    59      42.419 107.344  17.792  1.00 18.36
ATOM    490  CB  VAL    59      43.020 106.324  16.793  1.00 20.03
ATOM    491  CG1 VAL    59      42.476 104.927  17.080  1.00 19.74
ATOM    492  CG2 VAL    59      42.702 106.741  15.365  1.00 19.87
ATOM    493  C   VAL    59      42.829 106.915  19.201  1.00 16.93
ATOM    494  O   VAL    59      44.000 107.008  19.563  1.00 15.58
ATOM    495  N   TRP    60      41.871 106.458  20.002  1.00 17.21
ATOM    496  CA  TRP    60      42.202 106.003  21.348  1.00 16.08
ATOM    497  CB  TRP    60      40.949 105.951  22.223  1.00 15.37
ATOM    498  CG  TRP    60      40.415 107.317  22.537  1.00 12.88
ATOM    499  CD2 TRP    60      40.909 108.221  23.532  1.00 14.90
ATOM    500  CE2 TRP    60      40.135 109.400  23.446  1.00 14.95
ATOM    501  CE3 TRP    60      41.932 108.152  24.490  1.00 14.09
ATOM    502  CD1 TRP    60      39.392 107.966  21.904  1.00 16.93
ATOM    503  NE1 TRP    60      39.217 109.215  22.446  1.00 15.59
ATOM    504  CZ2 TRP    60      40.349 110.499  24.279  1.00 15.90
ATOM    505  CZ3 TRP    60      42.145 109.248  25.320  1.00 14.90
ATOM    506  CH2 TRP    60      41.356 110.406  25.208  1.00 16.29
ATOM    507  C   TRP    60      42.856 104.631  21.242  1.00 15.18
ATOM    508  O   TRP    60      42.305 103.714  20.636  1.00 14.91
ATOM    509  N   VAL    61      44.041 104.509  21.831  1.00 13.40
ATOM    510  CA  VAL    61      44.815 103.276  21.774  1.00 13.42
ATOM    511  CB  VAL    61      46.037 103.453  20.835  1.00 15.78
ATOM    512  CG1 VAL    61      46.843 102.168  20.767  1.00 19.38
ATOM    513  CG2 VAL    61      45.570 103.872  19.443  1.00 20.31
ATOM    514  C   VAL    61      45.329 102.854  23.149  1.00 13.95
ATOM    515  O   VAL    61      45.849 103.678  23.903  1.00 13.24
ATOM    516  N   TRP    62      45.168 101.575  23.474  1.00 12.68
ATOM    517  CA  TRP    62      45.651 101.055  24.750  1.00 11.80
ATOM    518  CB  TRP    62      45.055  99.677  25.019  1.00 12.88
ATOM    519  CG  TRP    62      43.565  99.702  25.131  1.00 12.24
ATOM    520  CD2 TRP    62      42.797 100.195  26.236  1.00 12.20
ATOM    521  CE2 TRP    62      41.434 100.041  25.898  1.00 12.90
ATOM    522  CE3 TRP    62      43.129 100.754  27.479  1.00 12.03
ATOM    523  CD1 TRP    62      42.663  99.281  24.194  1.00 13.80
ATOM    524  NE1 TRP    62      41.381  99.483  24.647  1.00 14.33
ATOM    525  CZ2 TRP    62      40.399 100.424  26.759  1.00 12.85
ATOM    526  CZ3 TRP    62      42.097 101.136  28.339  1.00 11.89
ATOM    527  CH2 TRP    62      40.748 100.968  27.972  1.00 11.45
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ATOM	528	C	TRP	62	47.167	100.967	24.640	1.00	12.02
ATOM	529	O	TRP	62	47.692	100.322	23.734	1.00	14.34
ATOM	530	N	VAL	63	47.869	101.617	25.562	1.00	12.12
ATOM	531	CA	VAL	63	49.326	101.643	25.518	1.00	13.98
ATOM	532	CB	VAL	63	49.885	102.719	26.479	1.00	13.92
ATOM	533	CG1	VAL	63	49.388	104.101	26.049	1.00	16.41
ATOM	534	CG2	VAL	63	49.469	102.422	27.910	1.00	15.48
ATOM	535	C	VAL	63	50.030	100.310	25.784	1.00	14.14
ATOM	536	O	VAL	63	51.095	100.046	25.223	1.00	15.57
ATOM	537	N	GLY	64	49.437	99.460	26.614	1.00	13.19
ATOM	538	CA	GLY	64	50.075	98.189	26.913	1.00	13.64
ATOM	539	C	GLY	64	49.980	97.158	25.805	1.00	12.21
ATOM	540	O	GLY	64	50.887	96.346	25.625	1.00	15.29
ATOM	541	N	THR	65	48.880	97.190	25.060	1.00	14.87
ATOM	542	CA	THR	65	48.661	96.237	23.979	1.00	14.06
ATOM	543	CB	THR	65	47.257	95.626	24.068	1.00	14.59
ATOM	544	OG1	THR	65	46.281	96.670	23.944	1.00	15.35
ATOM	545	CG2	THR	65	47.067	94.920	25.404	1.00	15.50
ATOM	546	C	THR	65	48.806	96.864	22.600	1.00	16.20
ATOM	547	O	THR	65	48.946	96.155	21.602	1.00	18.61
ATOM	548	N	GLN	66	48.757	98.192	22.559	1.00	16.50
ATOM	549	CA	GLN	66	48.859	98.960	21.323	1.00	17.77
ATOM	550	CB	GLN	66	50.170	98.637	20.600	1.00	20.58
ATOM	551	CG	GLN	66	51.405	98.886	21.452	1.00	24.27
ATOM	552	CD	GLN	66	52.698	98.774	20.671	1.00	32.69
ATOM	553	OE1	GLN	66	53.786	98.813	21.245	1.00	38.86
ATOM	554	NE2	GLN	66	52.587	98.643	19.355	1.00	36.77
ATOM	555	C	GLN	66	47.667	98.716	20.399	1.00	21.11
ATOM	556	O	GLN	66	47.747	98.944	19.193	1.00	23.91
ATOM	557	N	LYS	67	46.559	98.258	20.976	1.00	16.89
ATOM	558	CA	LYS	67	45.343	97.995	20.213	1.00	18.35
ATOM	559	CB	LYS	67	44.613	96.760	20.752	1.00	16.52
ATOM	560	CG	LYS	67	45.359	95.450	20.609	1.00	20.91
ATOM	561	CD	LYS	67	44.502	94.303	21.122	1.00	26.08
ATOM	562	CE	LYS	67	45.217	92.970	20.989	1.00	30.81
ATOM	563	NZ	LYS	67	44.377	91.845	21.488	1.00	28.51
ATOM	564	C	LYS	67	44.386	99.176	20.290	1.00	18.74
ATOM	565	O	LYS	67	44.218	99.784	21.345	1.00	17.59
ATOM	566	N	PRO	68	43.741	99.521	19.168	1.00	18.11
ATOM	567	CD	PRO	68	43.887	98.998	17.799	1.00	20.49
ATOM	568	CA	PRO	68	42.806	100.645	19.207	1.00	16.78
ATOM	569	CB	PRO	68	42.484	100.878	17.730	1.00	18.69
ATOM	570	CG	PRO	68	42.633	99.512	17.133	1.00	26.93
ATOM	571	C	PRO	68	41.567	100.292	20.036	1.00	18.14
ATOM	572	O	PRO	68	41.221	99.120	20.187	1.00	19.50
ATOM	573	N	LEU	69	40.913	101.312	20.581	1.00	18.33
ATOM	574	CA	LEU	69	39.715	101.111	21.388	1.00	18.25
ATOM	575	CB	LEU	69	39.240	102.453	21.949	1.00	18.06
ATOM	576	CG	LEU	69	37.937	102.483	22.752	1.00	14.97
ATOM	577	CD1	LEU	69	38.060	101.576	23.967	1.00	14.88
ATOM	578	CD2	LEU	69	37.644	103.915	23.179	1.00	18.60
ATOM	579	C	LEU	69	38.594	100.473	20.567	1.00	20.48
ATOM	580	O	LEU	69	38.329	100.884	19.437	1.00	21.34
ATOM	581	N	THR	70	37.939	99.469	21.140	1.00	19.24
ATOM	582	CA	THR	70	36.839	98.793	20.460	1.00	19.93
ATOM	583	CB	THR	70	36.912	97.265	20.637	1.00	22.40
ATOM	584	OG1	THR	70	36.784	96.934	22.026	1.00	22.57
ATOM	585	CG2	THR	70	38.235	96.731	20.110	1.00	24.79
ATOM	586	C	THR	70	35.515	99.275	21.037	1.00	19.69
ATOM	587	O	THR	70	35.468	99.809	22.145	1.00	16.47
ATOM	588	N	GLU	71	34.437	99.088	20.282	1.00	20.10
ATOM	589	CA	GLU	71	33.122	99.502	20.746	1.00	21.36
ATOM	590	CB	GLU	71	32.091	99.361	19.621	1.00	25.96
ATOM	591	CG	GLU	71	32.269	100.351	18.485	1.00	34.65
ATOM	592	CD	GLU	71	32.171	101.791	18.951	1.00	39.67
ATOM	593	OE1	GLU	71	31.153	102.144	19.584	1.00	40.81

ATOM	594	OE2	GLU	71	33.110	102.571	18.681	1.00	43.03
ATOM	595	C	GLU	71	32.670	98.691	21.954	1.00	19.79
ATOM	596	O	GLU	71	31.970	99.206	22.824	1.00	24.00
ATOM	597	N	GLU	72	33.071	97.426	22.022	1.00	19.85
ATOM	598	CA	GLU	72	32.652	96.596	23.146	1.00	22.44
ATOM	599	CB	GLU	72	32.868	95.112	22.835	1.00	28.72
ATOM	600	CG	GLU	72	34.302	94.636	22.903	1.00	36.14
ATOM	601	CD	GLU	72	34.413	93.133	22.720	1.00	44.22
ATOM	602	OE1	GLU—	72	33.678	92.394	23.412	1.00	45.16
ATOM	603	OE2	GLU—	72	35.236	92.690	21.890	1.00	48.59
ATOM	604	C	GLU	72	33.353	96.968	24.452	1.00	22.49
ATOM	605	O	GLU	72	32.832	96.710	25.538	1.00	26.79
ATOM	606	N	ALA	73	34.526	97.583	24.348	1.00	21.63
ATOM	607	CA	ALA	73	35.277	97.993	25.530	1.00	19.15
ATOM	608	CB	ALA	73	36.768	97.892	25.253	1.00	20.81
ATOM	609	C	ALA	73	34.923	99.419	25.953	1.00	20.71
ATOM	610	O	ALA	73	34.889	99.734	27.143	1.00	20.51
ATOM	611	N	LYS	74	34.658	100.272	24.967	1.00	18.86
ATOM	612	CA	LYS	74	34.319	101.677	25.194	1.00	17.63
ATOM	613	CB	LYS	74	33.756	102.276	23.899	1.00	18.16
ATOM	614	CG	LYS	74	33.481	103.769	23.960	1.00	25.37
ATOM	615	CD	LYS	74	32.999	104.299	22.615	1.00	30.61
ATOM	616	CE	LYS	74	34.044	104.086	21.531	1.00	33.02
ATOM	617	NZ	LYS	74	33.632	104.681	20.230	1.00	38.42
ATOM	618	C	LYS	74	33.333	101.894	26.343	1.00	17.48
ATOM	619	O	LYS	74	32.259	101.290	26.375	1.00	18.82
ATOM	620	N	ASN	75	33.688	102.774	27.277	1.00	13.50
ATOM	621	CA	ASN	75	32.818	103.032	28.419	1.00	14.45
ATOM	622	CB	ASN	75	33.140	102.026	29.532	1.00	13.88
ATOM	623	CG	ASN	75	32.011	101.878	30.535	1.00	16.46
ATOM	624	OD1	ASN	75	30.839	101.828	30.162	1.00	19.30
ATOM	625	ND2	ASN	75	32.361	101.780	31.815	1.00	15.30
ATOM	626	C	ASN	75	32.925	104.463	28.950	1.00	14.22
ATOM	627	O	ASN	75	33.067	104.682	30.153	1.00	14.62
ATOM	628	N	TRP	76	32.848	105.437	28.049	1.00	14.63
ATOM	629	CA	TRP	76	32.930	106.844	28.434	1.00	13.33
ATOM	630	CB	TRP	76	32.979	107.747	27.201	1.00	16.12
ATOM	631	CG	TRP	76	34.153	107.530	26.321	1.00	14.56
ATOM	632	CD2	TRP	76	35.501	107.936	26.579	1.00	13.43
ATOM	633	CE2	TRP	76	36.275	107.537	25.467	1.00	13.80
ATOM	634	CE3	TRP	76	36.132	108.597	27.642	1.00	14.15
ATOM	635	CD1	TRP	76	34.161	106.918	25.104	1.00	14.96
ATOM	636	NE1	TRP	76	35.431	106.919	24.581	1.00	15.13
ATOM	637	CZ2	TRP	76	37.652	107.778	25.386	1.00	14.98
ATOM	638	CZ3	TRP	76	37.501	108.837	27.563	1.00	13.72
ATOM	639	CH2	TRP	76	38.245	108.427	26.441	1.00	15.43
ATOM	640	C	TRP	76	31.727	107.270	29.258	1.00	13.92
ATOM	641	O	TRP	76	30.607	106.806	29.025	1.00	17.56
ATOM	642	N	ALA	77	31.959	108.165	30.213	1.00	15.09
ATOM	643	CA	ALA	77	30.875	108.685	31.031	1.00	16.31
ATOM	644	CB	ALA	77	31.433	109.444	32.225	1.00	14.80
ATOM	645	C	ALA	77	30.092	109.629	30.119	1.00	17.51
ATOM	646	O	ALA	77	30.615	110.089	29.103	1.00	16.50
ATOM	647	N	PRO	78	28.828	109.921	30.458	1.00	17.25
ATOM	648	CD	PRO	78	28.007	109.391	31.561	1.00	18.46
ATOM	649	CA	PRO	78	28.047	110.824	29.605	1.00	16.46
ATOM	650	CB	PRO	78	26.745	110.988	30.381	1.00	18.60
ATOM	651	CG	PRO	78	26.599	109.656	31.067	1.00	18.61
ATOM	652	C	PRO	78	28.759	112.157	29.392	1.00	17.81
ATOM	653	O	PRO	78	29.187	112.796	30.352	1.00	20.09
ATOM	654	N	GLY	79	28.893	112.567	28.133	1.00	17.97
ATOM	655	CA	GLY	79	29.546	113.830	27.833	1.00	19.28
ATOM	656	C	GLY	79	31.044	113.730	27.611	1.00	22.01
ATOM	657	O	GLY	79	31.685	114.702	27.206	1.00	21.79
ATOM	658	N	GLU	80	31.608	112.556	27.870	1.00	18.95
ATOM	659	CA	GLU	80	33.041	112.349	27.694	1.00	17.17

ATOM	660	CB	GLU	80	33.617	111.584	28.890	1.00	16.65
ATOM	661	CG	GLU	80	33.294	112.174	30.256	1.00	15.52
ATOM	662	CD	GLU	80	33.786	113.599	30.428	1.00	15.67
ATOM	663	OE1	GLU	80	34.699	114.016	29.687	1.00	16.79
ATOM	664	OE2	GLU	80	33.266	114.299	31.321	1.00	18.81
ATOM	665	C	GLU	80	33.322	111.556	26.417	1.00	14.48
ATOM	666	O	GLU	80	32.475	110.795	25.950	1.00	17.19
ATOM	667	N	PRO	81	34.516	111.740	25.826	1.00	15.78
ATOM	668	CD	PRO	81	34.995	110.906	24.709	1.00	17.20
ATOM	669	CA	PRO	81	35.576	112.636	26.297	1.00	17.48
ATOM	670	CB	PRO	81	36.823	112.061	25.637	1.00	17.81
ATOM	671	CG	PRO	81	36.293	111.578	24.326	1.00	17.87
ATOM	672	C	PRO	81	35.276	114.063	25.844	1.00	17.54
ATOM	673	O	PRO	81	34.689	114.265	24.781	1.00	20.73
ATOM	674	N	ASN	82	35.676	115.047	26.642	1.00	18.55
ATOM	675	CA	ASN	82	35.409	116.440	26.297	1.00	20.12
ATOM	676	CB	ASN	82	34.280	116.990	27.180	1.00	19.69
ATOM	677	CG	ASN	82	34.632	116.983	28.659	1.00	22.57
ATOM	678	OD1	ASN	82	35.780	116.739	29.040	1.00	20.81
ATOM	679	ND2	ASN	82	33.643	117.263	29.501	1.00	21.17
ATOM	680	C	ASN	82	36.620	117.369	26.381	1.00	22.28
ATOM	681	O	ASN	82	36.491	118.576	26.169	1.00	25.37
ATOM	682	N	ASN	83	37.789	116.815	26.691	1.00	23.74
ATOM	683	CA	ASN	83	39.014	117.608	26.788	1.00	28.40
ATOM	684	CB	ASN	83	39.963	117.037	27.848	1.00	26.59
ATOM	685	CG	ASN	83	39.414	117.145	29.253	1.00	24.82
ATOM	686	OD1	ASN	83	38.348	116.616	29.560	1.00	29.25
ATOM	687	ND2	ASN	83	40.149	117.830	30.121	1.00	28.69
ATOM	688	C	ASN	83	39.733	117.590	25.450	1.00	32.40
ATOM	689	O	ASN	83	40.467	116.651	25.150	1.00	39.92
ATOM	690	N	ARG	84	39.531	118.622	24.646	1.00	35.66
ATOM	691	CA	ARG	84	40.189	118.680	23.351	1.00	37.95
ATOM	692	CB	ARG	84	39.221	119.197	22.286	1.00	37.31
ATOM	693	CG	ARG	84	37.935	118.395	22.193	1.00	41.48
ATOM	694	CD	ARG	84	37.536	118.184	20.746	1.00	46.83
ATOM	695	NE	ARG	84	38.566	117.446	20.019	1.00	51.27
ATOM	696	CZ	ARG	84	38.480	117.103	18.739	1.00	53.15
ATOM	697	NH1	ARG	84	37.408	117.432	18.031	1.00	57.03
ATOM	698	NH2	ARG	84	39.468	116.429	18.165	1.00	54.56
ATOM	699	C	ARG	84	41.408	119.586	23.438	1.00	39.48
ATOM	700	O	ARG	84	41.440	120.660	22.836	1.00	42.32
ATOM	701	N	GLN	85	42.410	119.150	24.195	1.00	36.46
ATOM	702	CA	GLN	85	43.624	119.937	24.354	1.00	34.67
ATOM	703	CB	GLN	85	43.412	121.008	25.425	1.00	37.12
ATOM	704	CG	GLN	85	44.526	122.039	25.498	1.00	43.26
ATOM	705	CD	GLN	85	44.133	123.260	26.304	1.00	46.54
ATOM	706	OE1	GLN	85	43.154	123.937	25.987	1.00	50.92
ATOM	707	NE2	GLN	85	44.897	123.551	27.352	1.00	49.44
ATOM	708	C	GLN	85	44.852	119.098	24.694	1.00	31.17
ATOM	709	O	GLN	85	44.747	118.012	25.265	1.00	26.91
ATOM	710	N	LYS	86	46.015	119.626	24.328	1.00	26.73
ATOM	711	CA	LYS	86	47.300	118.979	24.560	1.00	26.63
ATOM	712	CB	LYS	86	48.415	119.923	24.098	1.00	26.44
ATOM	713	CG	LYS	86	49.835	119.445	24.348	1.00	26.25
ATOM	714	CD	LYS	86	50.206	118.266	23.474	1.00	22.46
ATOM	715	CE	LYS	86	51.704	118.006	23.547	1.00	23.67
ATOM	716	NZ	LYS	86	52.103	116.812	22.760	1.00	21.34
ATOM	717	C	LYS	86	47.513	118.592	26.025	1.00	22.64
ATOM	718	O	LYS	86	47.196	119.358	26.934	1.00	21.28
ATOM	719	N	ASP	87	48.056	117.395	26.236	1.00	21.16
ATOM	720	CA	ASP	87	48.337	116.871	27.570	1.00	19.17
ATOM	721	CB	ASP	87	49.309	117.792	28.309	1.00	19.05
ATOM	722	CG	ASP	87	50.655	117.875	27.626	1.00	22.78
ATOM	723	OD1	ASP	87	51.186	116.812	27.240	1.00	26.24
ATOM	724	OD2	ASP	87	51.184	118.996	27.481	1.00	26.35
ATOM	725	C	ASP	87	47.098	116.644	28.424	1.00	17.42

ATOM	726	O	ASP	87	47.168	116.661	29.653	1.00	19.38
ATOM	727	N	GLU	88	45.964	116.429	27.769	1.00	17.58
ATOM	728	CA	GLU	88	44.722	116.180	28.478	1.00	19.85
ATOM	729	CB	GLU	88	43.852	117.442	28.475	1.00	22.65
ATOM	730	CG	GLU	88	44.377	118.506	29.432	1.00	29.06
ATOM	731	CD	GLU	88	43.488	119.726	29.524	1.00	30.56
ATOM	732	OE1	GLU	88	42.251	119.569	29.484	1.00	33.36
ATOM	733	OE2	GLU	88	44.028	120.843	29.656	1.00	33.26
ATOM	734	C	GLU	88	43.977	114.994	27.881	1.00	17.73
ATOM	735	O	GLU	88	42.757	114.887	27.999	1.00	20.45
ATOM	736	N	ASP	89	44.725	114.100	27.235	1.00	16.91
ATOM	737	CA	ASP	89	44.144	112.901	26.640	1.00	14.98
ATOM	738	CB	ASP	89	44.644	112.701	25.203	1.00	16.63
ATOM	739	CG	ASP	89	46.127	112.430	25.135	1.00	13.00
ATOM	740	OD1	ASP	89	46.888	113.146	25.814	1.00	18.67
ATOM	741	OD2	ASP	89	46.529	111.506	24.395	1.00	17.59
ATOM	742	C	ASP	89	44.476	111.677	27.492	1.00	14.29
ATOM	743	O	ASP	89	44.716	110.583	26.977	1.00	17.64
ATOM	744	N	CYS	90	44.510	111.886	28.803	1.00	14.67
ATOM	745	CA	CYS	90	44.752	110.805	29.750	1.00	13.13
ATOM	746	C	CYS	90	43.366	110.479	30.286	1.00	16.53
ATOM	747	O	CYS	90	42.513	111.360	30.372	1.00	16.10
ATOM	748	CB	CYS	90	45.712	111.259	30.853	1.00	13.93
ATOM	749	SG	CYS	90	47.408	111.415	30.199	1.00	15.09
ATOM	750	N	VAL	91	43.136	109.220	30.639	1.00	13.69
ATOM	751	CA	VAL	91	41.813	108.797	31.080	1.00	13.56
ATOM	752	CB	VAL	91	41.196	107.854	30.024	1.00	12.69
ATOM	753	CG1	VAL	91	39.786	107.458	30.422	1.00	14.64
ATOM	754	CG2	VAL	91	41.208	108.534	28.662	1.00	13.01
ATOM	755	C	VAL	91	41.748	108.102	32.434	1.00	12.00
ATOM	756	O	VAL	91	42.552	107.221	32.737	1.00	13.58
ATOM	757	N	GLU	92	40.771	108.505	33.237	1.00	11.64
ATOM	758	CA	GLU	92	40.564	107.919	34.555	1.00	11.72
ATOM	759	CB	GLU	92	40.396	109.023	35.610	1.00	12.65
ATOM	760	CG	GLU	92	39.061	109.775	35.535	1.00	13.99
ATOM	761	CD	GLU	92	38.959	110.902	36.551	1.00	17.59
ATOM	762	OE1	GLU	92	39.474	110.745	37.676	1.00	17.88
ATOM	763	OE2	GLU	92	38.347	111.942	36.232	1.00	15.37
ATOM	764	C	GLU	92	39.303	107.059	34.524	1.00	14.87
ATOM	765	O	GLU	92	38.408	107.289	33.703	1.00	13.85
ATOM	766	N	ILE	93	39.240	106.066	35.408	1.00	11.98
ATOM	767	CA	ILE	93	38.065	105.205	35.503	1.00	13.40
ATOM	768	CB	ILE	93	38.424	103.697	35.326	1.00	11.70
ATOM	769	CG2	ILE	93	39.448	103.259	36.368	1.00	13.73
ATOM	770	CG1	ILE	93	37.152	102.847	35.423	1.00	11.98
ATOM	771	CD1	ILE	93	37.331	101.418	34.929	1.00	14.10
ATOM	772	C	ILE	93	37.403	105.459	36.856	1.00	11.46
ATOM	773	O	ILE	93	38.051	105.404	37.905	1.00	11.59
ATOM	774	N	TYR	94	36.109	105.759	36.814	1.00	11.22
ATOM	775	CA	TYR	94	35.337	106.078	38.008	1.00	11.84
ATOM	776	CB	TYR	94	34.063	106.837	37.614	1.00	13.18
ATOM	777	CG	TYR	94	34.283	108.228	37.040	1.00	15.36
ATOM	778	CD1	TYR	94	35.217	109.102	37.602	1.00	14.34
ATOM	779	CE1	TYR	94	35.346	110.421	37.142	1.00	17.16
ATOM	780	CD2	TYR	94	33.486	108.702	35.996	1.00	16.61
ATOM	781	CE2	TYR	94	33.606	110.015	35.533	1.00	16.31
ATOM	782	CZ	TYR	94	34.533	110.868	36.111	1.00	16.58
ATOM	783	OH	TYR	94	34.628	112.176	35.680	1.00	17.62
ATOM	784	C	TYR	94	34.960	104.883	38.879	1.00	13.50
ATOM	785	O	TYR	94	33.779	104.577	39.059	1.00	14.08
ATOM	786	N	ILE	95	35.964	104.220	39.440	1.00	11.90
ATOM	787	CA	ILE	95	35.717	103.072	40.298	1.00	13.14
ATOM	788	CB	ILE	95	37.045	102.435	40.772	1.00	11.40
ATOM	789	CG2	ILE	95	36.765	101.362	41.817	1.00	12.35
ATOM	790	CG1	ILE	95	37.817	101.868	39.573	1.00	12.76
ATOM	791	CD1	ILE	95	37.112	100.733	38.845	1.00	12.20

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ATOM	792	C	ILE	95	34.900	103.482	41.523	1.00	13.72
ATOM	793	O	ILE	95	35.287	104.385	42.267	1.00	13.23
ATOM	794	N	LYS	96	33.764	102.815	41.709	1.00	13.52
ATOM	795	CA	LYS	96	32.863	103.049	42.840	1.00	14.10
ATOM	796	CB	LYS	96	33.507	102.529	44.130	1.00	15.04
ATOM	797	CG	LYS	96	33.592	101.009	44.179	1.00	12.73
ATOM	798	CD	LYS	96	34.233	100.518	45.469	1.00	14.07
ATOM	799	CE	LYS	96	34.091	99.009	45.627	1.00	14.80
ATOM	800	NZ	LYS—	96	34.786	98.255	44.551	1.00	15.58
ATOM	801	C	LYS—	96	32.362	104.476	43.045	1.00	16.14
ATOM	802	O	LYS	96	31.993	104.861	44.156	1.00	17.33
ATOM	803	N	ARG	97	32.334	105.257	41.970	1.00	14.10
ATOM	804	CA	ARG	97	31.838	106.627	42.032	1.00	15.90
ATOM	805	CB	ARG	97	32.224	107.368	40.749	1.00	15.12
ATOM	806	CG	ARG	97	31.811	108.828	40.673	1.00	16.36
ATOM	807	CD	ARG	97	32.507	109.457	39.475	1.00	17.17
ATOM	808	NE	ARG	97	32.227	110.876	39.273	1.00	18.05
ATOM	809	CZ	ARG	97	31.262	111.349	38.490	1.00	23.95
ATOM	810	NH1	ARG	97	30.466	110.519	37.829	1.00	21.73
ATOM	811	NH2	ARG	97	31.112	112.658	38.346	1.00	29.17
ATOM	812	C	ARG	97	30.314	106.558	42.168	1.00	15.59
ATOM	813	O	ARG	97	29.685	105.630	41.661	1.00	17.83
ATOM	814	N	GLU	98	29.727	107.535	42.856	1.00	17.46
ATOM	815	CA	GLU	98	28.279	107.575	43.053	1.00	21.42
ATOM	816	CB	GLU	98	27.877	108.858	43.785	1.00	24.85
ATOM	817	CG	GLU	98	26.372	109.063	43.877	1.00	35.74
ATOM	818	CD	GLU	98	25.999	110.415	44.450	1.00	42.24
ATOM	819	OE1	GLU	98	26.523	111.436	43.957	1.00	47.16
ATOM	820	OE2	GLU	98	25.174	110.458	45.385	1.00	49.37
ATOM	821	C	GLU	98	27.513	107.491	41.736	1.00	19.99
ATOM	822	O	GLU	98	26.552	106.733	41.613	1.00	25.50
ATOM	823	N	LYS	99	27.934	108.287	40.761	1.00	21.26
ATOM	824	CA	LYS	99	27.287	108.300	39.456	1.00	21.25
ATOM	825	CB	LYS	99	26.695	109.684	39.185	1.00	26.69
ATOM	826	CG	LYS	99	25.689	110.119	40.244	1.00	32.56
ATOM	827	CD	LYS	99	25.126	111.500	39.974	1.00	40.58
ATOM	828	CE	LYS	99	24.176	111.918	41.086	1.00	46.44
ATOM	829	NZ	LYS	99	23.556	113.246	40.832	1.00	46.98
ATOM	830	C	LYS	99	28.305	107.933	38.384	1.00	17.93
ATOM	831	O	LYS	99	29.512	108.027	38.614	1.00	19.02
ATOM	832	N	ASP	100	27.814	107.508	37.223	1.00	18.73
ATOM	833	CA	ASP	100	28.676	107.109	36.113	1.00	18.58
ATOM	834	CB	ASP	100	29.412	108.324	35.540	1.00	17.04
ATOM	835	CG	ASP	100	28.478	109.477	35.233	1.00	19.15
ATOM	836	OD1	ASP	100	27.395	109.225	34.667	1.00	21.84
ATOM	837	OD2	ASP	100	28.829	110.633	35.551	1.00	24.40
ATOM	838	C	ASP	100	29.693	106.090	36.612	1.00	15.27
ATOM	839	O	ASP	100	30.850	106.097	36.199	1.00	15.65
ATOM	840	N	VAL	101	29.245	105.208	37.499	1.00	15.83
ATOM	841	CA	VAL	101	30.121	104.202	38.085	1.00	14.85
ATOM	842	CB	VAL	101	29.335	103.298	39.071	1.00	17.45
ATOM	843	CG1	VAL	101	28.367	102.408	38.317	1.00	20.59
ATOM	844	CG2	VAL	101	30.299	102.472	39.899	1.00	19.93
ATOM	845	C	VAL	101	30.853	103.331	37.066	1.00	13.75
ATOM	846	O	VAL	101	30.245	102.758	36.159	1.00	16.69
ATOM	847	N	GLY	102	32.172	103.250	37.225	1.00	13.31
ATOM	848	CA	GLY	102	32.999	102.444	36.346	1.00	14.00
ATOM	849	C	GLY	102	33.248	103.031	34.971	1.00	13.60
ATOM	850	O	GLY	102	33.935	102.422	34.152	1.00	13.83
ATOM	851	N	MET	103	32.707	104.217	34.713	1.00	13.59
ATOM	852	CA	MET	103	32.881	104.844	33.411	1.00	13.96
ATOM	853	CB	MET	103	31.641	105.668	33.076	1.00	14.02
ATOM	854	CG	MET	103	30.437	104.777	32.820	1.00	14.88
ATOM	855	SD	MET	103	28.901	105.680	32.678	1.00	16.16
ATOM	856	CE	MET	103	27.903	104.831	33.886	1.00	30.00
ATOM	857	C	MET	103	34.156	105.674	33.315	1.00	12.97

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ATOM	858	O	MET	103	34.837	105.901	34.316	1.00	14.75
ATOM	859	N	TRP	104	34.482	106.116	32.104	1.00	13.11
ATOM	860	CA	TRP	104	35.708	106.869	31.876	1.00	13.31
ATOM	861	CB	TRP	104	36.474	106.291	30.681	1.00	13.07
ATOM	862	CG	TRP	104	36.559	104.794	30.622	1.00	10.95
ATOM	863	CD2	TRP	104	36.791	104.007	29.451	1.00	13.70
ATOM	864	CE2	TRP	104	36.832	102.653	29.856	1.00	13.42
ATOM	865	CE3	TRP	104	36.969	104.314	28.094	1.00	14.34
ATOM	866	CD1	TRP	104	36.470	103.911	31.667	1.00	12.08
ATOM	867	NE1	TRP	104	36.633	102.623	31.211	1.00	13.12
ATOM	868	CZ2	TRP	104	37.045	101.606	28.951	1.00	13.13
ATOM	869	CZ3	TRP	104	37.181	103.274	27.196	1.00	15.29
ATOM	870	CH2	TRP	104	37.216	101.936	27.629	1.00	14.11
ATOM	871	C	TRP	104	35.559	108.364	31.642	1.00	13.63
ATOM	872	O	TRP	104	34.532	108.847	31.162	1.00	13.21
ATOM	873	N	ASN	105	36.624	109.086	31.969	1.00	13.96
ATOM	874	CA	ASN	105	36.667	110.527	31.787	1.00	13.92
ATOM	875	CB	ASN	105	36.243	111.250	33.066	1.00	15.88
ATOM	876	CG	ASN	105	36.514	112.741	32.999	1.00	14.74
ATOM	877	OD1	ASN	105	36.145	113.404	32.027	1.00	16.61
ATOM	878	ND2	ASN	105	37.166	113.275	34.027	1.00	17.46
ATOM	879	C	ASN	105	38.078	110.957	31.417	1.00	15.67
ATOM	880	O	ASN	105	39.045	110.564	32.075	1.00	13.31
ATOM	881	N	ASP	106	38.202	111.748	30.356	1.00	13.64
ATOM	882	CA	ASP	106	39.514	112.231	29.957	1.00	14.61
ATOM	883	CB	ASP	106	39.528	112.632	28.470	1.00	15.81
ATOM	884	CG	ASP	106	38.528	113.723	28.124	1.00	18.67
ATOM	885	OD1	ASP	106	37.470	113.828	28.779	1.00	17.65
ATOM	886	OD2	ASP	106	38.811	114.470	27.159	1.00	20.08
ATOM	887	C	ASP	106	39.859	113.395	30.880	1.00	16.17
ATOM	888	O	ASP	106	39.003	114.222	31.201	1.00	17.79
ATOM	889	N	GLU	107	41.107	113.438	31.332	1.00	15.89
ATOM	890	CA	GLU	107	41.536	114.467	32.269	1.00	18.33
ATOM	891	CB	GLU	107	41.446	113.902	33.693	1.00	21.91
ATOM	892	CG	GLU	107	41.751	114.894	34.799	1.00	32.27
ATOM	893	CD	GLU	107	40.760	116.035	34.839	1.00	36.42
ATOM	894	OE1	GLU	107	41.182	117.198	34.659	1.00	39.21
ATOM	895	OE2	GLU	107	39.558	115.768	35.047	1.00	33.02
ATOM	896	C	GLU	107	42.955	114.949	31.994	1.00	17.41
ATOM	897	O	GLU	107	43.697	114.329	31.230	1.00	18.38
ATOM	898	N	ARG	108	43.321	116.066	32.619	1.00	17.93
ATOM	899	CA	ARG	108	44.656	116.620	32.468	1.00	18.34
ATOM	900	CB	ARG	108	44.775	117.944	33.230	1.00	20.02
ATOM	901	CG	ARG	108	46.115	118.638	33.048	1.00	28.25
ATOM	902	CD	ARG	108	46.102	120.087	33.536	1.00	36.18
ATOM	903	NE	ARG	108	45.732	120.214	34.942	1.00	39.39
ATOM	904	CZ	ARG	108	44.481	120.262	35.391	1.00	43.57
ATOM	905	NH1	ARG	108	43.464	120.198	34.540	1.00	43.62
ATOM	906	NH2	ARG	108	44.247	120.375	36.692	1.00	44.51
ATOM	907	C	ARG	108	45.626	115.589	33.030	1.00	17.30
ATOM	908	O	ARG	108	45.477	115.128	34.164	1.00	16.66
ATOM	909	N	CYS	109	46.615	115.229	32.224	1.00	16.35
ATOM	910	CA	CYS	109	47.597	114.225	32.605	1.00	18.15
ATOM	911	C	CYS	109	48.421	114.540	33.850	1.00	18.55
ATOM	912	O	CYS	109	49.005	113.637	34.453	1.00	17.16
ATOM	913	CB	CYS	109	48.524	113.963	31.425	1.00	16.12
ATOM	914	SG	CYS	109	47.678	113.407	29.907	1.00	18.13
ATOM	915	N	SER	110	48.466	115.811	34.240	1.00	18.45
ATOM	916	CA	SER	110	49.232	116.223	35.414	1.00	19.48
ATOM	917	CB	SER	110	49.593	117.709	35.309	1.00	18.57
ATOM	918	OG	SER	110	48.427	118.507	35.212	1.00	24.22
ATOM	919	C	SER	110	48.507	115.961	36.735	1.00	19.16
ATOM	920	O	SER	110	49.099	116.085	37.808	1.00	21.92
ATOM	921	N	LYS	111	47.230	115.601	36.661	1.00	17.62
ATOM	922	CA	LYS	111	46.458	115.311	37.866	1.00	18.47
ATOM	923	CB	LYS	111	44.980	115.110	37.520	1.00	21.39

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ATOM    924  CG  LYS   111      44.294 116.348  36.948  1.00 28.19
ATOM    925  CD  LYS   111      44.229 117.474  37.966  1.00 32.22
ATOM    926  CE  LYS   111      43.371 117.093  39.163  1.00 37.26
ATOM    927  NZ  LYS   111      41.982 116.732  38.761  1.00 41.77
ATOM    928  C   LYS   111      47.010 114.048  38.519  1.00 17.07
ATOM    929  O   LYS   111      47.581 113.186  37.847  1.00 17.79
ATOM    930  N   LYS   112      46.838 113.939  39.830  1.00 17.97
ATOM    931  CA  LYS   112      47.333 112.778  40.551  1.00 19.28
ATOM    932  CB  LYS   112      47.998 113.215  41.857  1.00 19.20
ATOM    933  CG  LYS   112      49.224 114.091  41.648  1.00 24.95
ATOM    934  CD  LYS   112      49.863 114.477  42.974  1.00 32.93
ATOM    935  CE  LYS   112      51.099 115.339  42.758  1.00 38.37
ATOM    936  NZ  LYS   112      52.127 114.643  41.933  1.00 41.69
ATOM    937  C   LYS   112      46.228 111.775  40.835  1.00 16.85
ATOM    938  O   LYS   112      45.227 112.092  41.478  1.00 18.03
ATOM    939  N   LYS   113      46.418 110.557  40.340  1.00 17.39
ATOM    940  CA  LYS   113      45.451 109.488  40.533  1.00 16.70
ATOM    941  CB  LYS   113      44.556 109.356  39.297  1.00 16.92
ATOM    942  CG  LYS   113      43.902 110.668  38.867  1.00 16.67
ATOM    943  CD  LYS   113      42.992 110.476  37.667  1.00 13.01
ATOM    944  CE  LYS   113      42.413 111.806  37.188  1.00 17.54
ATOM    945  NZ  LYS   113      41.532 112.439  38.202  1.00 19.81
ATOM    946  C   LYS   113      46.221 108.196  40.754  1.00 14.05
ATOM    947  O   LYS   113      47.426 108.136  40.505  1.00 15.08
ATOM    948  N   LEU   114      45.532 107.167  41.231  1.00 14.22
ATOM    949  CA  LEU   114      46.190 105.891  41.477  1.00 12.97
ATOM    950  CB  LEU   114      45.308 104.986  42.342  1.00 15.66
ATOM    951  CG  LEU   114      44.925 105.473  43.743  1.00 17.82
ATOM    952  CD1 LEU   114      44.136 104.378  44.450  1.00 15.76
ATOM    953  CD2 LEU   114      46.171 105.832  44.536  1.00 19.14
ATOM    954  C   LEU   114      46.501 105.179  40.168  1.00 13.02
ATOM    955  O   LEU   114      45.772 105.307  39.184  1.00 13.88
ATOM    956  N   ALA   115      47.599 104.436  40.155  1.00 11.67
ATOM    957  CA  ALA   115      47.971 103.682  38.973  1.00 10.99
ATOM    958  CB  ALA   115      49.477 103.440  38.957  1.00 11.50
ATOM    959  C   ALA   115      47.232 102.348  39.015  1.00 12.00
ATOM    960  O   ALA   115      47.202 101.687  40.051  1.00 13.27
ATOM    961  N   LEU   116      46.610 101.968  37.903  1.00 11.41
ATOM    962  CA  LEU   116      45.912 100.686  37.817  1.00 11.17
ATOM    963  CB  LEU   116      44.450 100.880  37.401  1.00 11.31
ATOM    964  CG  LEU   116      43.634  99.613  37.102  1.00 10.46
ATOM    965  CD1 LEU   116      43.807  98.577  38.207  1.00 13.01
ATOM    966  CD2 LEU   116      42.174  99.995  36.948  1.00 12.12
ATOM    967  C   LEU   116      46.688  99.926  36.752  1.00 10.42
ATOM    968  O   LEU   116      46.631 100.266  35.565  1.00 10.90
ATOM    969  N   CYS   117      47.426  98.908  37.190  1.00  9.54
ATOM    970  CA  CYS   117      48.275  98.119  36.302  1.00 11.62
ATOM    971  C   CYS   117      47.797  96.704  36.025  1.00 11.00
ATOM    972  O   CYS   117      46.907  96.187  36.691  1.00 10.44
ATOM    973  CB  CYS   117      49.670  97.957  36.901  1.00 11.36
ATOM    974  SG  CYS   117      50.468  99.380  37.701  1.00 13.25
ATOM    975  N   TYR   118      48.425  96.085  35.031  1.00 10.98
ATOM    976  CA  TYR   118      48.155  94.696  34.705  1.00  9.88
ATOM    977  CB  TYR   118      47.248  94.542  33.472  1.00 10.87
ATOM    978  CG  TYR   118      47.919  94.729  32.123  1.00  8.70
ATOM    979  CD1 TYR   118      48.116  96.001  31.594  1.00 12.11
ATOM    980  CE1 TYR   118      48.682  96.179  30.336  1.00 10.35
ATOM    981  CD2 TYR   118      48.315  93.631  31.358  1.00  9.72
ATOM    982  CE2 TYR   118      48.884  93.799  30.089  1.00  9.94
ATOM    983  CZ  TYR   118      49.058  95.078  29.588  1.00 11.25
ATOM    984  OH  TYR   118      49.577  95.271  28.324  1.00 13.37
ATOM    985  C   TYR   118      49.492  94.028  34.439  1.00 11.08
ATOM    986  O   TYR   118      50.478  94.695  34.129  1.00 10.28
ATOM    987  N   THR   119      49.522  92.712  34.607  1.00 10.94
ATOM    988  CA  THR   119      50.710  91.917  34.346  1.00  9.02
ATOM    989  CB  THR   119      51.223  91.196  35.609  1.00 10.11
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ATOM    990  OG1 THR   119      51.655  92.169  36.570  1.00 11.64
ATOM    991  CG2 THR   119      52.398  90.290  35.262  1.00 12.05
ATOM    992  C   THR   119      50.224  90.896  33.329  1.00 10.41
ATOM    993  O   THR   119      49.341  90.089  33.619  1.00 10.79
ATOM    994  N   ALA   120      50.790  90.960  32.131  1.00 10.18
ATOM    995  CA  ALA   120      50.405  90.069  31.046  1.00  9.17
ATOM    996  CB  ALA   120      51.072  90.525  29.754  1.00 10.76
ATOM    997  C   ALA   120      50.751  88.614  31.309  1.00 12.18
ATOM    998  O   ALA-  120      51.794  88.307  31.882  1.00 14.56
ATOM    999  N   ALA-  121      49.859  87.722  30.895  1.00 11.34
ATOM   1000  CA  ALA   121      50.094  86.293  31.036  1.00 13.58
ATOM   1001  CB  ALA   121      48.829  85.592  31.515  1.00 12.46
ATOM   1002  C   ALA   121      50.501  85.763  29.661  1.00 12.93
ATOM   1003  O   ALA   121      51.046  84.668  29.543  1.00 15.60
ATOM   1004  N   CYS   122      50.248  86.561  28.626  1.00 12.89
ATOM   1005  CA  CYS   122      50.563  86.175  27.254  1.00 13.58
ATOM   1006  C   CYS   122      51.890  86.714  26.727  1.00 14.20
ATOM   1007  O   CYS   122      52.181  87.899  26.861  1.00 14.92
ATOM   1008  CB  CYS   122      49.463  86.656  26.309  1.00 13.41
ATOM   1009  SG  CYS   122      47.838  85.850  26.462  1.00 14.61
ATOM   1010  N   THR   123      52.685  85.841  26.113  1.00 12.36
ATOM   1011  CA  THR   123      53.957  86.246  25.512  1.00 14.25
ATOM   1012  CB  THR   123      55.183  85.866  26.370  1.00 14.53
ATOM   1013  OG1 THR   123      55.350  84.445  26.360  1.00 17.29
ATOM   1014  CG2 THR   123      55.018  86.353  27.800  1.00 15.35
ATOM   1015  C   THR   123      54.076  85.508  24.184  1.00 14.71
ATOM   1016  O   THR   123      53.185  84.739  23.820  1.00 16.77
ATOM   1017  N   ASN   124      55.178  85.730  23.470  1.00 15.31
ATOM   1018  CA  ASN   124      55.391  85.080  22.178  1.00 18.24
ATOM   1019  CB  ASN   124      56.636  85.651  21.488  1.00 25.23
ATOM   1020  CG  ASN   124      56.454  87.087  21.051  1.00 35.39
ATOM   1021  OD1 ASN   124      55.481  87.424  20.377  1.00 42.47
ATOM   1022  ND2 ASN   124      57.398  87.943  21.425  1.00 43.97
ATOM   1023  C   ASN   124      55.530  83.564  22.267  1.00 19.87
ATOM   1024  O   ASN   124      55.312  82.861  21.279  1.00 19.04
ATOM   1025  N   THR   125      55.895  83.057  23.440  1.00 17.03
ATOM   1026  CA  THR   125      56.059  81.619  23.606  1.00 15.96
ATOM   1027  CB  THR   125      57.272  81.294  24.506  1.00 16.45
ATOM   1028  OG1 THR   125      57.065  81.844  25.813  1.00 18.84
ATOM   1029  CG2 THR   125      58.546  81.885  23.907  1.00 17.74
ATOM   1030  C   THR   125      54.816  80.944  24.178  1.00 16.65
ATOM   1031  O   THR   125      54.792  79.727  24.365  1.00 17.92
ATOM   1032  N   SER   126      53.777  81.727  24.451  1.00 14.27
ATOM   1033  CA  SER   126      52.550  81.155  24.989  1.00 12.80
ATOM   1034  CB  SER   126      51.526  82.250  25.294  1.00 12.41
ATOM   1035  OG  SER   126      51.966  83.089  26.345  1.00 13.65
ATOM   1036  C   SER   126      51.940  80.171  24.002  1.00 13.54
ATOM   1037  O   SER   126      52.216  80.220  22.799  1.00 14.86
ATOM   1038  N   CYS   127      51.108  79.280  24.527  1.00 12.82
ATOM   1039  CA  CYS   127      50.418  78.283  23.721  1.00 13.37
ATOM   1040  C   CYS   127      51.346  77.454  22.838  1.00 13.86
ATOM   1041  O   CYS   127      51.011  77.133  21.693  1.00 13.78
ATOM   1042  CB  CYS   127      49.346  78.967  22.869  1.00 12.71
ATOM   1043  SG  CYS   127      48.255  80.078  23.824  1.00 15.98
ATOM   1044  N   SER   128      52.506  77.102  23.388  1.00 13.79
ATOM   1045  CA  SER   128      53.495  76.283  22.691  1.00 14.77
ATOM   1046  CB  SER   128      52.903  74.903  22.397  1.00 13.87
ATOM   1047  OG  SER   128      52.400  74.308  23.579  1.00 17.17
ATOM   1048  C   SER   128      54.005  76.886  21.390  1.00 16.13
ATOM   1049  O   SER   128      54.715  76.215  20.635  1.00 15.15
ATOM   1050  N   GLY   129      53.651  78.143  21.135  1.00 15.23
ATOM   1051  CA  GLY   129      54.068  78.801  19.909  1.00 14.32
ATOM   1052  C   GLY   129      53.160  78.422  18.751  1.00 15.45
ATOM   1053  O   GLY   129      53.471  78.699  17.591  1.00 16.36
ATOM   1054  N   HIS   130      52.027  77.800  19.064  1.00 14.65
ATOM   1055  CA  HIS   130      51.089  77.370  18.033  1.00 15.19
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ATOM	1056	CB	HIS	130	51.288	75.881	17.753	1.00	16.31
ATOM	1057	CG	HIS	130	52.586	75.580	17.077	1.00	15.36
ATOM	1058	CD2	HIS	130	53.745	75.071	17.558	1.00	18.01
ATOM	1059	ND1	HIS	130	52.823	75.897	15.758	1.00	16.82
ATOM	1060	CE1	HIS	130	54.075	75.601	15.455	1.00	18.47
ATOM	1061	NE2	HIS	130	54.656	75.099	16.529	1.00	15.81
ATOM	1062	C	HIS	130	49.634	77.646	18.365	1.00	15.55
ATOM	1063	O	HIS	130	48.758	76.815	18.124	1.00	15.65
ATOM	1064	N	GLY	131	49.384	78.828	18.912	1.00	14.31
ATOM	1065	CA	GLY	131	48.031	79.205	19.259	1.00	16.36
ATOM	1066	C	GLY	131	47.960	80.671	19.623	1.00	13.83
ATOM	1067	O	GLY	131	48.974	81.280	19.971	1.00	16.18
ATOM	1068	N	GLU	132	46.764	81.239	19.522	1.00	15.82
ATOM	1069	CA	GLU	132	46.548	82.640	19.859	1.00	15.79
ATOM	1070	CB	GLU	132	45.359	83.200	19.074	1.00	20.29
ATOM	1071	CG	GLU	132	45.148	84.695	19.252	1.00	31.08
ATOM	1072	CD	GLU	132	43.818	85.168	18.696	1.00	39.27
ATOM	1073	OE1	GLU	132	43.476	84.784	17.558	1.00	43.94
ATOM	1074	OE2	GLU	132	43.117	85.930	19.396	1.00	43.99
ATOM	1075	C	GLU	132	46.255	82.710	21.352	1.00	15.40
ATOM	1076	O	GLU	132	45.358	82.028	21.850	1.00	13.16
ATOM	1077	N	CYS	133	47.029	83.522	22.062	1.00	13.82
ATOM	1078	CA	CYS	133	46.855	83.680	23.498	1.00	14.77
ATOM	1079	C	CYS	133	45.944	84.872	23.749	1.00	13.52
ATOM	1080	O	CYS	133	46.175	85.960	23.222	1.00	15.79
ATOM	1081	CB	CYS	133	48.213	83.909	24.154	1.00	13.14
ATOM	1082	SG	CYS	133	48.236	83.917	25.977	1.00	14.52
ATOM	1083	N	VAL	134	44.898	84.650	24.536	1.00	12.18
ATOM	1084	CA	VAL	134	43.947	85.702	24.868	1.00	12.93
ATOM	1085	CB	VAL	134	42.525	85.343	24.375	1.00	15.66
ATOM	1086	CG1	VAL	134	41.526	86.419	24.803	1.00	15.96
ATOM	1087	CG2	VAL	134	42.529	85.200	22.853	1.00	17.87
ATOM	1088	C	VAL	134	43.928	85.897	26.379	1.00	11.02
ATOM	1089	O	VAL	134	43.745	84.943	27.140	1.00	12.48
ATOM	1090	N	GLU	135	44.137	87.138	26.806	1.00	12.78
ATOM	1091	CA	GLU	135	44.146	87.469	28.222	1.00	11.66
ATOM	1092	CB	GLU	135	44.792	88.837	28.437	1.00	12.52
ATOM	1093	CG	GLU	135	46.188	88.969	27.850	1.00	11.41
ATOM	1094	CD	GLU	135	47.281	88.579	28.825	1.00	10.30
ATOM	1095	OE1	GLU	135	46.970	88.005	29.890	1.00	10.98
ATOM	1096	OE2	GLU	135	48.456	88.848	28.511	1.00	10.42
ATOM	1097	C	GLU	135	42.729	87.516	28.770	1.00	11.78
ATOM	1098	O	GLU	135	41.827	88.054	28.129	1.00	12.52
ATOM	1099	N	THR	136	42.538	86.940	29.952	1.00	10.24
ATOM	1100	CA	THR	136	41.238	86.961	30.609	1.00	12.05
ATOM	1101	CB	THR	136	40.562	85.569	30.612	1.00	13.94
ATOM	1102	OG1	THR	136	41.390	84.627	31.301	1.00	16.54
ATOM	1103	CG2	THR	136	40.336	85.083	29.187	1.00	15.30
ATOM	1104	C	THR	136	41.492	87.420	32.040	1.00	12.98
ATOM	1105	O	THR	136	42.636	87.676	32.418	1.00	11.27
ATOM	1106	N	ILE	137	40.434	87.538	32.833	1.00	11.52
ATOM	1107	CA	ILE	137	40.587	87.982	34.209	1.00	10.90
ATOM	1108	CB	ILE	137	39.215	88.294	34.829	1.00	10.91
ATOM	1109	CG2	ILE	137	39.366	88.646	36.298	1.00	13.19
ATOM	1110	CG1	ILE	137	38.568	89.449	34.064	1.00	13.25
ATOM	1111	CD1	ILE	137	37.130	89.701	34.450	1.00	17.36
ATOM	1112	C	ILE	137	41.314	86.937	35.046	1.00	10.45
ATOM	1113	O	ILE	137	40.785	85.851	35.307	1.00	13.02
ATOM	1114	N	ASN	138	42.536	87.272	35.449	1.00	9.93
ATOM	1115	CA	ASN	138	43.368	86.385	36.258	1.00	9.59
ATOM	1116	CB	ASN	138	42.743	86.203	37.645	1.00	13.15
ATOM	1117	CG	ASN	138	42.767	87.480	38.453	1.00	13.42
ATOM	1118	OD1	ASN	138	43.794	88.157	38.515	1.00	13.08
ATOM	1119	ND2	ASN	138	41.642	87.819	39.078	1.00	11.21
ATOM	1120	C	ASN	138	43.622	85.024	35.606	1.00	11.64
ATOM	1121	O	ASN	138	43.785	84.012	36.291	1.00	13.68

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ATOM	1122	N	ASN	139	43.673	85.007	34.278	1.00	11.29
ATOM	1123	CA	ASN	139	43.911	83.769	33.539	1.00	11.03
ATOM	1124	CB	ASN	139	42.669	82.865	33.647	1.00	15.57
ATOM	1125	CG	ASN	139	42.924	81.437	33.184	1.00	18.22
ATOM	1126	OD1	ASN	139	41.985	80.699	32.897	1.00	28.84
ATOM	1127	ND2	ASN	139	44.184	81.040	33.127	1.00	18.19
ATOM	1128	C	ASN	139	44.173	84.133	32.075	1.00	11.87
ATOM	1129	O	ASN	139	44.329	85.306	31.730	1.00	10.95
ATOM	1130	N	TYR	140	44.249	83.120	31.222	1.00	11.85
ATOM	1131	CA	TYR	140	44.437	83.337	29.793	1.00	12.56
ATOM	1132	CB	TYR	140	45.911	83.606	29.436	1.00	10.99
ATOM	1133	CG	TYR	140	46.820	82.408	29.577	1.00	11.85
ATOM	1134	CD1	TYR	140	47.309	82.023	30.822	1.00	12.26
ATOM	1135	CE1	TYR	140	48.114	80.898	30.963	1.00	12.65
ATOM	1136	CD2	TYR	140	47.163	81.636	28.465	1.00	11.98
ATOM	1137	CE2	TYR	140	47.970	80.505	28.595	1.00	13.39
ATOM	1138	CZ	TYR	140	48.439	80.143	29.848	1.00	13.01
ATOM	1139	OH	TYR	140	49.213	79.015	29.993	1.00	14.25
ATOM	1140	C	TYR	140	43.962	82.069	29.104	1.00	12.52
ATOM	1141	O	TYR	140	43.845	81.020	29.740	1.00	15.17
ATOM	1142	N	THR	141	43.675	82.169	27.814	1.00	13.56
ATOM	1143	CA	THR	141	43.221	81.013	27.058	1.00	13.70
ATOM	1144	CB	THR	141	41.720	81.119	26.711	1.00	16.12
ATOM	1145	OG1	THR	141	41.493	82.280	25.902	1.00	21.41
ATOM	1146	CG2	THR	141	40.892	81.216	27.978	1.00	14.99
ATOM	1147	C	THR	141	44.009	80.889	25.767	1.00	14.02
ATOM	1148	O	THR	141	44.576	81.862	25.271	1.00	14.87
ATOM	1149	N	CYS	142	44.047	79.676	25.229	1.00	17.04
ATOM	1150	CA	CYS	142	44.748	79.418	23.984	1.00	15.53
ATOM	1151	C	CYS	142	43.774	78.960	22.910	1.00	14.80
ATOM	1152	O	CYS	142	42.970	78.059	23.138	1.00	18.32
ATOM	1153	CB	CYS	142	45.813	78.334	24.171	1.00	14.71
ATOM	1154	SG	CYS	142	47.287	78.840	25.111	1.00	16.01
ATOM	1155	N	LYS	143	43.843	79.600	21.748	1.00	16.28
ATOM	1156	CA	LYS	143	43.014	79.235	20.602	1.00	17.62
ATOM	1157	CB	LYS	143	42.363	80.475	19.987	1.00	20.55
ATOM	1158	CG	LYS	143	41.355	80.177	18.890	1.00	32.81
ATOM	1159	CD	LYS	143	40.803	81.466	18.298	1.00	42.48
ATOM	1160	CE	LYS	143	39.685	81.192	17.306	1.00	48.48
ATOM	1161	NZ	LYS	143	38.506	80.555	17.959	1.00	53.33
ATOM	1162	C	LYS	143	44.053	78.653	19.650	1.00	16.18
ATOM	1163	O	LYS	143	44.769	79.392	18.975	1.00	17.76
ATOM	1164	N	CYS	144	44.140	77.327	19.613	1.00	18.26
ATOM	1165	CA	CYS	144	45.140	76.641	18.800	1.00	17.72
ATOM	1166	C	CYS	144	45.050	76.800	17.294	1.00	18.48
ATOM	1167	O	CYS	144	43.961	76.888	16.724	1.00	19.86
ATOM	1168	CB	CYS	144	45.152	75.151	19.146	1.00	19.38
ATOM	1169	SG	CYS	144	45.369	74.840	20.924	1.00	21.18
ATOM	1170	N	ASP	145	46.221	76.838	16.662	1.00	18.64
ATOM	1171	CA	ASP	145	46.321	76.957	15.214	1.00	17.53
ATOM	1172	CB	ASP	145	47.739	77.346	14.781	1.00	18.17
ATOM	1173	CG	ASP	145	48.213	78.651	15.389	1.00	20.66
ATOM	1174	OD1	ASP	145	47.368	79.479	15.789	1.00	21.51
ATOM	1175	OD2	ASP	145	49.444	78.855	15.448	1.00	18.36
ATOM	1176	C	ASP	145	46.005	75.587	14.626	1.00	19.79
ATOM	1177	O	ASP	145	46.038	74.576	15.328	1.00	19.69
ATOM	1178	N	PRO	146	45.696	75.534	13.325	1.00	22.03
ATOM	1179	CD	PRO	146	45.496	76.642	12.376	1.00	24.94
ATOM	1180	CA	PRO	146	45.388	74.246	12.699	1.00	22.04
ATOM	1181	CB	PRO	146	45.154	74.626	11.239	1.00	24.93
ATOM	1182	CG	PRO	146	44.590	76.009	11.343	1.00	24.51
ATOM	1183	C	PRO	146	46.555	73.274	12.859	1.00	18.07
ATOM	1184	O	PRO	146	47.712	73.650	12.664	1.00	20.61
ATOM	1185	N	GLY	147	46.249	72.031	13.223	1.00	18.69
ATOM	1186	CA	GLY	147	47.284	71.026	13.390	1.00	18.51
ATOM	1187	C	GLY	147	47.705	70.808	14.830	1.00	17.41

ATOM	1188	O	GLY	147	48.455	69.876	15.132	1.00	18.47
ATOM	1189	N	PHE	148	47.210	71.658	15.723	1.00	17.05
ATOM	1190	CA	PHE	148	47.557	71.574	17.136	1.00	17.22
ATOM	1191	CB	PHE	148	48.519	72.714	17.476	1.00	15.27
ATOM	1192	CG	PHE	148	49.755	72.718	16.626	1.00	14.68
ATOM	1193	CD1	PHE	148	50.866	71.960	16.985	1.00	17.46
ATOM	1194	CD2	PHE	148	49.777	73.411	15.421	1.00	15.55
ATOM	1195	CE1	PHE	148	51.980	71.889	16.152	1.00	17.52
ATOM	1196	CE2	PHE	148	50.887	73.346	14.581	1.00	17.23
ATOM	1197	CZ	PHE	148	51.989	72.581	14.949	1.00	18.71
ATOM	1198	C	PHE	148	46.332	71.627	18.038	1.00	16.71
ATOM	1199	O	PHE	148	45.325	72.244	17.696	1.00	20.04
ATOM	1200	N	SER	149	46.422	70.961	19.185	1.00	16.75
ATOM	1201	CA	SER	149	45.323	70.931	20.144	1.00	19.94
ATOM	1202	CB	SER	149	44.405	69.731	19.881	1.00	24.69
ATOM	1203	OG	SER	149	45.098	68.508	20.054	1.00	28.51
ATOM	1204	C	SER	149	45.868	70.855	21.563	1.00	18.79
ATOM	1205	O	SER	149	47.077	70.759	21.770	1.00	16.39
ATOM	1206	N	GLY	150	44.967	70.890	22.537	1.00	21.83
ATOM	1207	CA	GLY	150	45.380	70.842	23.925	1.00	21.67
ATOM	1208	C	GLY	150	45.178	72.203	24.556	1.00	17.41
ATOM	1209	O	GLY	150	45.079	73.210	23.854	1.00	18.48
ATOM	1210	N	LEU	151	45.117	72.245	25.882	1.00	19.30
ATOM	1211	CA	LEU	151	44.914	73.507	26.578	1.00	18.66
ATOM	1212	CB	LEU	151	44.775	73.259	28.084	1.00	19.77
ATOM	1213	CG	LEU	151	43.525	72.477	28.505	1.00	26.07
ATOM	1214	CD1	LEU	151	43.614	72.108	29.975	1.00	27.16
ATOM	1215	CD2	LEU	151	42.283	73.311	28.231	1.00	28.85
ATOM	1216	C	LEU	151	46.042	74.496	26.302	1.00	17.74
ATOM	1217	O	LEU	151	45.838	75.708	26.385	1.00	19.03
ATOM	1218	N	LYS	152	47.222	73.979	25.965	1.00	16.67
ATOM	1219	CA	LYS	152	48.379	74.823	25.666	1.00	16.65
ATOM	1220	CB	LYS	152	49.574	74.442	26.549	1.00	19.09
ATOM	1221	CG	LYS	152	49.313	74.383	28.052	1.00	25.33
ATOM	1222	CD	LYS	152	49.125	75.759	28.647	1.00	22.06
ATOM	1223	CE	LYS	152	49.368	75.754	30.149	1.00	21.17
ATOM	1224	NZ	LYS	152	48.438	74.855	30.878	1.00	29.26
ATOM	1225	C	LYS	152	48.798	74.656	24.203	1.00	17.56
ATOM	1226	O	LYS	152	49.844	75.159	23.797	1.00	14.84
ATOM	1227	N	CYS	153	47.980	73.953	23.423	1.00	15.17
ATOM	1228	CA	CYS	153	48.276	73.692	22.009	1.00	14.56
ATOM	1229	C	CYS	153	49.584	72.929	21.899	1.00	18.54
ATOM	1230	O	CYS	153	50.337	73.090	20.932	1.00	17.14
ATOM	1231	CB	CYS	153	48.374	75.000	21.219	1.00	12.33
ATOM	1232	SG	CYS	153	46.914	76.062	21.430	1.00	16.50
ATOM	1233	N	GLU	154	49.838	72.085	22.893	1.00	17.41
ATOM	1234	CA	GLU	154	51.065	71.308	22.958	1.00	17.53
ATOM	1235	CB	GLU	154	51.483	71.127	24.424	1.00	19.05
ATOM	1236	CG	GLU	154	50.696	70.083	25.241	1.00	20.20
ATOM	1237	CD	GLU	154	49.212	70.396	25.429	1.00	22.44
ATOM	1238	OE1	GLU	154	48.802	71.570	25.315	1.00	20.31
ATOM	1239	OE2	GLU	154	48.443	69.451	25.717	1.00	28.88
ATOM	1240	C	GLU	154	50.984	69.946	22.281	1.00	18.90
ATOM	1241	O	GLU	154	51.990	69.242	22.180	1.00	21.34
ATOM	1242	N	GLN	155	49.795	69.580	21.815	1.00	19.66
ATOM	1243	CA	GLN	155	49.600	68.288	21.169	1.00	23.65
ATOM	1244	CB	GLN	155	48.360	67.606	21.741	1.00	25.68
ATOM	1245	CG	GLN	155	48.402	67.407	23.245	1.00	29.88
ATOM	1246	CD	GLN	155	47.091	66.893	23.801	1.00	37.34
ATOM	1247	OE1	GLN	155	46.962	66.665	25.003	1.00	43.50
ATOM	1248	NE2	GLN	155	46.108	66.709	22.928	1.00	38.25
ATOM	1249	C	GLN	155	49.453	68.383	19.659	1.00	23.33
ATOM	1250	O	GLN	155	48.808	69.295	19.143	1.00	21.15
ATOM	1251	N	ILE	156	50.047	67.426	18.955	1.00	20.87
ATOM	1252	CA	ILE	156	49.947	67.389	17.503	1.00	21.75
ATOM	1253	CB	ILE	156	51.037	66.493	16.877	1.00	21.10

ATOM	1254	CG2	ILE	156	50.835	66.403	15.369	1.00	20.78	
ATOM	1255	CG1	ILE	156	52.429	67.033	17.221	1.00	25.03	
ATOM	1256	CD1	ILE	156	52.697	68.439	16.721	1.00	26.94	
ATOM	1257	C	ILE	156	48.584	66.804	17.164	1.00	23.32	
ATOM	1258	O	ILE	156	48.273	65.674	17.543	1.00	25.77	
ATOM	1259	N	VAL	157	47.765	67.583	16.467	1.00	26.00	
ATOM	1260	CA	VAL	157	46.435	67.137	16.075	1.00	32.85	
ATOM	1261	CB	VAL	157	45.552	68.341	15.633	1.00	29.34	
ATOM	1262	CG1	VAL	157	44.697	67.974	14.431	1.00	34.84	
ATOM	1263	CG2	VAL	157	44.654	68.757	16.775	1.00	32.63	
ATOM	1264	C	VAL	157	46.557	66.126	14.940	1.00	34.70	
ATOM	1265	O	VAL	157	46.102	64.976	15.127	1.00	40.47	
ATOM	1266	OXT	VAL	157	47.115	66.494	13.884	1.00	44.61	
ATOM	1267	OH2	WAT	162	57.606	95.461	33.005	1.00	10.47	SOLV
ATOM	1268	OH2	WAT	180	46.936	86.043	34.465	1.00	10.44	SOLV
ATOM	1269	OH2	WAT	181	51.036	78.764	27.649	1.00	3.84	SOLV
ATOM	1270	OH2	WAT	203	44.354	90.381	39.794	1.00	11.92	SOLV
ATOM	1271	OH2	WAT	204	49.569	93.576	37.640	1.00	15.37	SOLV
ATOM	1272	OH2	WAT	205	48.391	95.881	43.953	1.00	23.38	SOLV
ATOM	1273	OH2	WAT	207	51.569	97.572	43.431	1.00	20.52	SOLV
ATOM	1274	OH2	WAT	208	52.657	103.670	45.487	1.00	14.14	SOLV
ATOM	1275	OH2	WAT	212	53.952	108.806	28.041	1.00	28.57	SOLV
ATOM	1276	OH2	WAT	214	56.717	106.483	38.784	1.00	26.13	SOLV
ATOM	1277	OH2	WAT	218	56.836	92.516	35.336	1.00	17.91	SOLV
ATOM	1278	OH2	WAT	220	55.229	92.132	30.870	1.00	14.20	SOLV
ATOM	1279	OH2	WAT	222	54.353	103.196	26.624	1.00	22.71	SOLV
ATOM	1280	OH2	WAT	223	47.142	99.593	28.264	1.00	12.35	SOLV
ATOM	1281	OH2	WAT	224	44.966	95.014	31.228	1.00	11.03	SOLV
ATOM	1282	OH2	WAT	225	40.908	94.819	31.862	1.00	12.08	SOLV
ATOM	1283	OH2	WAT	227	36.352	90.453	24.697	1.00	25.77	SOLV
ATOM	1284	OH2	WAT	228	31.576	93.796	26.436	1.00	27.61	SOLV
ATOM	1285	OH2	WAT	230	30.826	96.125	39.655	1.00	21.12	SOLV
ATOM	1286	OH2	WAT	232	29.939	100.436	42.847	1.00	18.62	SOLV
ATOM	1287	OH2	WAT	234	42.152	97.871	45.716	1.00	21.13	SOLV
ATOM	1288	OH2	WAT	236	37.844	105.125	42.916	1.00	13.61	SOLV
ATOM	1289	OH2	WAT	237	43.491	106.891	47.586	1.00	27.74	SOLV
ATOM	1290	OH2	WAT	239	45.130	107.458	30.259	1.00	14.13	SOLV
ATOM	1291	OH2	WAT	240	37.576	111.379	21.120	1.00	24.59	SOLV
ATOM	1292	OH2	WAT	241	39.093	105.795	18.931	1.00	18.71	SOLV
ATOM	1293	OH2	WAT	244	30.954	104.807	25.624	1.00	25.84	SOLV
ATOM	1294	OH2	WAT	246	35.632	106.921	21.566	1.00	21.10	SOLV
ATOM	1295	OH2	WAT	251	38.610	113.923	22.328	1.00	37.28	SOLV
ATOM	1296	OH2	WAT	253	40.183	114.094	24.669	1.00	41.26	SOLV
ATOM	1297	OH2	WAT	254	48.147	115.134	24.609	1.00	20.66	SOLV
ATOM	1298	OH2	WAT	255	39.951	112.776	41.552	1.00	34.72	SOLV
ATOM	1299	OH2	WAT	257	29.790	102.614	44.445	1.00	25.21	SOLV
ATOM	1300	OH2	WAT	259	31.157	109.489	44.418	1.00	24.00	SOLV
ATOM	1301	OH2	WAT	260	42.186	118.527	19.494	1.00	53.48	SOLV
ATOM	1302	OH2	WAT	261	24.738	107.408	37.002	1.00	26.24	SOLV
ATOM	1303	OH2	WAT	262	25.774	107.279	33.864	1.00	25.30	SOLV
ATOM	1304	OH2	WAT	264	24.603	103.054	38.441	1.00	42.39	SOLV
ATOM	1305	OH2	WAT	265	30.372	101.084	33.994	1.00	20.28	SOLV
ATOM	1306	OH2	WAT	267	45.800	116.349	41.424	1.00	23.66	SOLV
ATOM	1307	OH2	WAT	268	43.173	113.723	40.296	1.00	29.81	SOLV
ATOM	1308	OH2	WAT	269	48.892	90.730	26.662	1.00	14.21	SOLV
ATOM	1309	OH2	WAT	270	50.320	93.081	26.908	1.00	14.24	SOLV
ATOM	1310	OH2	WAT	271	50.874	82.079	28.693	1.00	18.32	SOLV
ATOM	1311	OH2	WAT	272	53.554	80.372	28.678	1.00	18.20	SOLV
ATOM	1312	OH2	WAT	274	53.287	77.067	26.228	1.00	15.81	SOLV
ATOM	1313	OH2	WAT	275	55.772	79.789	26.987	1.00	38.10	SOLV
ATOM	1314	OH2	WAT	276	56.466	77.780	23.472	1.00	22.01	SOLV
ATOM	1315	OH2	WAT	279	53.460	74.049	26.005	1.00	20.54	SOLV
ATOM	1316	OH2	WAT	280	44.096	89.418	24.908	1.00	15.27	SOLV
ATOM	1317	OH2	WAT	281	46.619	91.005	24.624	1.00	13.50	SOLV
ATOM	1318	OH2	WAT	282	38.818	89.180	24.630	1.00	21.32	SOLV
ATOM	1319	OH2	WAT	283	38.499	84.678	34.220	1.00	22.64	SOLV

ATOM	1320	OH2	WAT	289	51.013	76.995	14.105	1.00	17.95	SOLV
ATOM	1321	OH2	WAT	298	37.637	87.240	31.597	1.00	16.46	SOLV
ATOM	1322	OH2	WAT	299	39.273	88.034	27.163	1.00	16.05	SOLV
ATOM	1323	OH2	WAT	300	38.081	89.065	29.379	1.00	15.31	SOLV
ATOM	1324	OH2	WAT	301	42.378	91.837	41.056	1.00	19.98	SOLV
ATOM	1325	OH2	WAT	303	51.764	93.411	43.746	1.00	25.94	SOLV
ATOM	1326	OH2	WAT	306	51.590	113.080	33.396	1.00	20.43	SOLV
ATOM	1327	OH2	WAT	308	56.178	104.671	28.085	1.00	24.52	SOLV
ATOM	1328	OH2	WAT	309	58.588	94.713	35.121	1.00	19.25	SOLV
ATOM	1329	OH2	WAT	312	43.879	95.736	24.524	1.00	16.25	SOLV
ATOM	1330	OH2	WAT	313	44.016	92.867	24.253	1.00	21.30	SOLV
ATOM	1331	OH2	WAT	320	55.141	89.516	29.803	1.00	18.83	SOLV
ATOM	1332	OH2	WAT	321	49.131	84.875	20.739	1.00	24.62	SOLV
ATOM	1333	OH2	WAT	322	47.858	88.250	23.308	1.00	28.13	SOLV
ATOM	1334	OH2	WAT	323	46.083	69.985	27.369	1.00	28.26	SOLV
ATOM	1335	OH2	WAT	324	30.726	115.078	31.103	1.00	23.20	SOLV
ATOM	1336	OH2	WAT	326	37.987	113.980	40.460	1.00	44.63	SOLV
ATOM	1337	OH2	WAT	327	24.815	114.227	30.783	1.00	37.06	SOLV
ATOM	1338	OH2	WAT	328	39.919	117.502	32.549	0.00	22.42	SOLV
ATOM	1339	OH2	WAT	329	29.195	111.022	41.482	1.00	33.33	SOLV
ATOM	1340	OH2	WAT	330	28.143	117.088	30.140	1.00	48.57	SOLV
ATOM	1341	OH2	WAT	331	28.386	116.231	32.918	1.00	51.75	SOLV
ATOM	1342	OH2	WAT	332	26.207	115.070	26.949	1.00	42.73	SOLV
ATOM	1343	OH2	WAT	333	28.380	116.756	36.104	1.00	59.98	SOLV
ATOM	1344	OH2	WAT	334	37.885	85.876	26.488	1.00	27.72	SOLV
ATOM	1345	OH2	WAT	335	51.926	114.314	30.630	1.00	39.75	SOLV
ATOM	1346	OH2	WAT	336	28.271	105.964	46.446	1.00	33.63	SOLV
ATOM	1347	OH2	WAT	337	51.680	81.232	18.703	1.00	20.34	SOLV
ATOM	1348	OH2	WAT	339	51.120	82.705	21.843	1.00	31.18	SOLV
ATOM	1349	OH2	WAT	340	32.030	109.323	23.587	1.00	28.30	SOLV
ATOM	1350	OH2	WAT	341	56.177	108.178	41.457	1.00	35.30	SOLV
ATOM	1351	OH2	WAT	342	56.898	69.790	22.820	1.00	24.33	SOLV
ATOM	1352	OH2	WAT	343	31.321	98.058	43.450	1.00	17.06	SOLV
ATOM	1353	OH2	WAT	345	32.845	112.899	33.761	1.00	18.77	SOLV
ATOM	1354	OH2	WAT	346	49.284	76.080	12.157	1.00	22.06	SOLV
ATOM	1355	OH2	WAT	348	36.818	93.697	46.758	1.00	19.00	SOLV
ATOM	1356	OH2	WAT	349	40.119	88.028	44.991	1.00	16.55	SOLV
ATOM	1357	OH2	WAT	350	51.780	107.101	27.313	1.00	19.00	SOLV
ATOM	1358	OH2	WAT	352	40.988	96.763	50.710	1.00	26.23	SOLV
ATOM	1359	OH2	WAT	353	44.674	84.823	41.272	1.00	25.02	SOLV
ATOM	1360	OH2	WAT	354	40.063	98.163	22.684	1.00	27.04	SOLV
ATOM	1361	OH2	WAT	355	53.045	92.519	26.721	1.00	17.75	SOLV
ATOM	1362	OH2	WAT	356	49.685	67.358	27.138	1.00	32.01	SOLV
ATOM	1363	OH2	WAT	357	51.078	75.807	10.169	1.00	22.20	SOLV
ATOM	1364	OH2	WAT	358	55.353	114.806	27.701	1.00	31.25	SOLV
ATOM	1365	OH2	WAT	360	56.741	88.092	24.062	1.00	25.81	SOLV
ATOM	1366	OH2	WAT	361	37.361	98.154	49.190	1.00	18.74	SOLV
ATOM	1367	OH2	WAT	362	52.254	115.756	34.329	1.00	40.75	SOLV
ATOM	1368	OH2	WAT	363	51.437	116.861	31.806	1.00	32.54	SOLV
ATOM	1369	OH2	WAT	364	37.691	94.354	22.764	1.00	26.64	SOLV
ATOM	1370	OH2	WAT	365	53.958	89.826	27.438	1.00	17.42	SOLV
ATOM	1371	OH2	WAT	366	54.675	114.770	33.299	1.00	34.19	SOLV
ATOM	1372	OH2	WAT	367	43.041	75.228	23.842	1.00	26.94	SOLV
ATOM	1373	OH2	WAT	368	45.642	104.067	48.325	1.00	39.96	SOLV
ATOM	1374	OH2	WAT	369	41.941	75.570	20.820	1.00	27.31	SOLV
ATOM	1375	OH2	WAT	370	50.038	90.391	39.228	1.00	25.37	SOLV
ATOM	1376	OH2	WAT	371	53.862	117.020	26.946	1.00	39.13	SOLV
ATOM	1377	OH2	WAT	372	50.984	89.854	25.081	1.00	19.64	SOLV
ATOM	1378	OH2	WAT	373	56.815	104.544	43.220	1.00	35.81	SOLV
ATOM	1379	OH2	WAT	374	48.666	117.753	31.835	1.00	26.46	SOLV
ATOM	1380	OH2	WAT	375	50.713	93.258	24.173	1.00	22.90	SOLV
ATOM	1381	OH2	WAT	376	46.944	117.902	21.133	1.00	33.57	SOLV
ATOM	1382	OH2	WAT	377	36.318	96.761	47.068	1.00	20.30	SOLV
ATOM	1383	OH2	WAT	378	39.307	84.625	46.661	1.00	21.69	SOLV
ATOM	1384	OH2	WAT	379	39.095	86.819	48.407	1.00	22.86	SOLV
ATOM	1385	OH2	WAT	380	35.182	98.114	17.489	1.00	31.95	SOLV

ATOM	1386	OH2	WAT	381	51.590	65.316	20.372	1.00	23.92	SOLV
ATOM	1387	OH2	WAT	383	52.866	105.408	25.417	1.00	21.22	SOLV
ATOM	1388	OH2	WAT	385	57.850	77.456	17.268	1.00	22.98	SOLV
ATOM	1389	OH2	WAT	387	55.915	79.203	16.794	1.00	21.29	SOLV
ATOM	1390	OH2	WAT	389	41.410	96.892	18.574	1.00	25.37	SOLV
ATOM	1391	OH2	WAT	390	44.668	112.892	44.032	1.00	26.99	SOLV
ATOM	1392	OH2	WAT	391	44.740	80.182	16.325	1.00	28.12	SOLV
ATOM	1393	OH2	WAT	392	45.642	101.550	46.450	1.00	26.67	SOLV
ATOM	1394	OH2	WAT	393	60.101	102.213	46.083	1.00	30.46	SOLV
ATOM	1395	OH2	WAT	394	43.459	77.417	26.910	1.00	27.16	SOLV
ATOM	1396	OH2	WAT	395	53.369	98.929	24.890	1.00	28.19	SOLV
ATOM	1397	OH2	WAT	396	50.808	115.240	25.042	1.00	28.68	SOLV
ATOM	1398	OH2	WAT	397	58.359	76.664	19.970	1.00	25.84	SOLV
ATOM	1399	OH2	WAT	400	43.106	88.516	42.496	1.00	26.76	SOLV
ATOM	1400	OH2	WAT	401	41.791	97.034	48.225	1.00	26.82	SOLV
ATOM	1401	OH2	WAT	403	59.402	102.386	34.102	1.00	29.21	SOLV
ATOM	1402	OH2	WAT	404	57.485	81.074	20.338	1.00	29.49	SOLV
ATOM	1403	OH2	WAT	405	57.606	78.647	21.439	1.00	32.51	SOLV
ATOM	1404	OH2	WAT	407	49.840	97.548	45.187	1.00	27.25	SOLV
ATOM	1405	OH2	WAT	408	52.307	95.772	23.191	1.00	31.50	SOLV
ATOM	1406	OH2	WAT	410	41.020	96.081	24.262	1.00	23.93	SOLV
ATOM	1407	OH2	WAT	411	33.812	95.506	19.869	1.00	32.60	SOLV
ATOM	1408	OH2	WAT	412	54.766	94.476	26.901	1.00	28.26	SOLV
ATOM	1409	OH2	WAT	413	48.663	120.323	31.325	1.00	31.36	SOLV
ATOM	1410	OH2	WAT	414	40.475	102.363	15.273	1.00	31.85	SOLV
ATOM	1411	OH2	WAT	415	40.344	93.876	22.667	1.00	28.92	SOLV
ATOM	1412	OH2	WAT	416	42.267	81.979	23.072	1.00	27.77	SOLV
ATOM	1413	OH2	WAT	417	43.377	100.604	45.594	1.00	29.99	SOLV
ATOM	1414	OH2	WAT	418	40.559	95.162	46.775	1.00	31.13	SOLV
ATOM	1415	OH2	WAT	419	42.626	85.737	45.645	1.00	31.19	SOLV
ATOM	1416	OH2	WAT	420	42.829	115.867	24.627	1.00	31.10	SOLV
ATOM	1417	OH2	WAT	421	39.834	110.704	52.126	1.00	32.29	SOLV
ATOM	1418	OH2	WAT	423	46.949	83.597	40.323	1.00	32.48	SOLV
ATOM	1419	OH2	WAT	424	53.614	100.479	45.534	1.00	31.45	SOLV
ATOM	1420	OH2	WAT	425	58.790	103.934	31.741	1.00	28.80	SOLV
ATOM	1421	OH2	WAT	426	57.552	104.308	40.121	1.00	28.44	SOLV
ATOM	1422	OH2	WAT	427	48.637	82.039	16.065	1.00	30.47	SOLV
ATOM	1423	OH2	WAT	429	28.039	102.187	46.610	1.00	24.28	SOLV
ATOM	1424	OH2	WAT	430	43.256	89.497	22.369	1.00	29.43	SOLV
ATOM	1425	OH2	WAT	431	26.472	108.417	27.301	1.00	29.41	SOLV
ATOM	1426	OH2	WAT	432	54.714	106.437	29.336	1.00	28.08	SOLV
ATOM	1427	OH2	WAT	433	46.550	121.595	30.298	1.00	33.33	SOLV
ATOM	1428	OH2	WAT	434	47.230	92.120	42.724	1.00	33.56	SOLV
ATOM	1429	OH2	WAT	435	47.757	98.205	46.161	1.00	30.53	SOLV
ATOM	1430	OH2	WAT	436	40.785	94.510	20.002	1.00	30.53	SOLV
ATOM	1431	OH2	WAT	437	49.373	118.754	19.782	1.00	30.93	SOLV
ATOM	1432	OH2	WAT	439	53.280	96.769	26.905	1.00	28.00	SOLV
ATOM	1433	OH2	WAT	440	43.771	71.398	14.077	1.00	30.17	SOLV
ATOM	1434	OH2	WAT	441	50.933	117.452	39.096	1.00	29.68	SOLV
ATOM	1435	OH2	WAT	442	45.093	87.380	21.034	1.00	28.81	SOLV
ATOM	1436	OH2	WAT	443	30.463	108.607	46.761	1.00	37.77	SOLV
ATOM	1437	OH2	WAT	444	54.971	113.517	35.792	1.00	30.96	SOLV
ATOM	1438	OH2	WAT	445	60.525	104.631	36.867	1.00	33.66	SOLV
ATOM	1439	OH2	WAT	446	39.307	102.965	17.942	1.00	31.45	SOLV
ATOM	1440	OH2	WAT	447	35.908	114.979	22.316	1.00	32.64	SOLV
ATOM	1441	OH2	WAT	448	41.566	103.623	48.562	1.00	33.52	SOLV
ATOM	1442	OH2	WAT	449	58.651	105.147	27.440	1.00	32.22	SOLV
ATOM	1443	OH2	WAT	450	53.167	120.032	26.293	1.00	34.50	SOLV
ATOM	1444	OH2	WAT	451	34.956	111.077	20.893	1.00	33.66	SOLV
ATOM	1445	OH2	WAT	452	52.983	110.163	44.358	1.00	32.82	SOLV
ATOM	1446	OH2	WAT	453	30.067	107.058	24.585	1.00	30.21	SOLV
ATOM	1447	OH2	WAT	454	49.664	83.844	18.019	1.00	33.44	SOLV
ATOM	1448	OH2	WAT	455	57.907	98.879	46.696	1.00	27.79	SOLV
ATOM	1449	OH2	WAT	456	44.790	113.649	14.140	1.00	33.17	SOLV
ATOM	1450	OH2	WAT	457	33.705	108.691	21.692	1.00	31.92	SOLV
ATOM	1451	OH2	WAT	458	47.758	82.580	42.588	1.00	31.11	SOLV

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ATOM   1452  OH2 WAT   459      40.384  92.360  47.846  1.00 33.60      SOLV
ATOM   1453  C1S SIA   601      33.880 113.515  41.639  1.00 36.02
ATOM   1454  O1S SIA   601      34.881 113.935  42.225  1.00 34.95
ATOM   1455  O1T SIA   601      33.682 112.249  41.222  1.00 30.45
ATOM   1456  C2S SIA   601      32.675 114.493  41.282  1.00 37.22
ATOM   1457  C6S SIA   601      32.571 115.592  43.516  1.00 42.97
ATOM   1458  O6S SIA   601      32.752 115.704  42.080  1.00 38.77
ATOM   1459  C3S SIA   601      31.267 113.853  41.540  1.00 38.91
ATOM   1460  C4S SIA   601      30.974 113.672  43.049  1.00 41.68
ATOM   1461  O4S SIA   601      29.664 113.194  43.268  1.00 42.75
ATOM   1462  C5S SIA   601      31.163 115.005  43.809  1.00 44.70
ATOM   1463  N5S SIA   601      30.991 114.749  45.249  1.00 49.84
ATOM   1464  C5U SIA   601      30.035 115.233  46.088  1.00 53.60
ATOM   1465  O5V SIA   601      29.893 114.787  47.214  1.00 56.69
ATOM   1466  C5W SIA   601      29.118 116.366  45.611  1.00 51.60
ATOM   1467  C7S SIA   601      32.857 116.992  44.099  1.00 44.47
ATOM   1468  O7S SIA   601      31.854 117.870  43.628  1.00 47.24
ATOM   1469  C8S SIA   601      34.281 117.487  43.699  1.00 43.60
ATOM   1470  O8S SIA   601      35.270 116.499  43.940  1.00 42.54
ATOM   1471  C9S SIA   601      34.742 118.737  44.455  1.00 43.79
ATOM   1472  O9S SIA   601      34.954 118.355  45.794  1.00 52.11
ATOM   1473  C1G GAL   602      34.615 117.665  38.155  1.00 30.24
ATOM   1474  C2G GAL   602      33.365 116.921  38.692  1.00 30.24
ATOM   1475  C3G GAL   602      33.836 115.668  39.463  1.00 27.25
ATOM   1476  C4G GAL   602      34.765 114.785  38.592  1.00 26.13
ATOM   1477  C5G GAL   602      35.931 115.629  38.011  1.00 26.72
ATOM   1478  C6G GAL   602      36.818 114.855  37.032  1.00 25.57
ATOM   1479  O5G GAL   602      35.406 116.786  37.348  1.00 27.55
ATOM   1480  O2G GAL   602      32.626 117.740  39.575  1.00 34.02
ATOM   1481  O3G GAL   602      32.706 114.881  39.893  1.00 28.50
ATOM   1482  O4G GAL   602      33.936 114.234  37.591  1.00 27.66
ATOM   1483  O6G GAL   602      37.611 113.891  37.692  1.00 25.73
ATOM   1484  C1N NAG   603      35.710 122.693  36.907  1.00 43.08
ATOM   1485  C2N NAG   603      36.264 121.664  35.887  1.00 40.87
ATOM   1486  N2N NAG   603      36.245 122.328  34.583  1.00 40.83
ATOM   1487  C3N NAG   603      35.396 120.362  35.896  1.00 39.23
ATOM   1488  C4N NAG   603      35.215 119.833  37.360  1.00 34.96
ATOM   1489  C5N NAG   603      34.756 121.002  38.316  1.00 37.04
ATOM   1490  C6N NAG   603      34.689 120.700  39.820  1.00 38.17
ATOM   1491  O1N NAG   603      36.369 123.964  36.940  1.00 49.71
ATOM   1492  CNN NAG   603      37.650 123.971  37.570  1.00 52.56
ATOM   1493  O5N NAG   603      35.660 122.104  38.210  1.00 39.15
ATOM   1494  O3N NAG   603      36.026 119.359  35.094  1.00 38.07
ATOM   1495  O4N NAG   603      34.235 118.792  37.370  1.00 31.94
ATOM   1496  O6N NAG   603      35.928 120.224  40.287  1.00 40.77
ATOM   1497  C7N NAG   603      37.363 122.601  33.878  1.00 40.62
ATOM   1498  O7N NAG   603      38.517 122.472  34.271  1.00 40.92
ATOM   1499  C8N NAG   603      37.043 123.112  32.473  1.00 38.75
ATOM   1500  C1F FUC   604      35.546 119.238  33.750  1.00 36.63
ATOM   1501  C2F FUC   604      36.615 118.464  32.939  1.00 32.99
ATOM   1502  C3F FUC   604      36.681 116.991  33.421  1.00 30.04
ATOM   1503  C4F FUC   604      35.284 116.331  33.366  1.00 23.12
ATOM   1504  C5F FUC   604      34.240 117.183  34.142  1.00 29.38
ATOM   1505  C6F FUC   604      32.809 116.640  34.044  1.00 27.79
ATOM   1506  O5F FUC   604      34.280 118.546  33.673  1.00 31.96
ATOM   1507  O2F FUC   604      37.839 119.137  33.073  1.00 35.20
ATOM   1508  O3F FUC   604      37.527 116.202  32.617  1.00 23.08
ATOM   1509  O4F FUC   604      34.915 116.247  31.999  1.00 20.40
ATOM   1510 CA+2 CA2   160      36.800 115.173  30.590  1.00 16.81
END
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Figure 5

		Atom Type	Residue			X	Y	Z	OCC	B
ATOM	1	CB	TRP	A	1	44.917	100.730	54.203	1.00	34.30
ATOM	2	CG	TRP	A	1	44.586	101.692	55.293	1.00	34.49
ATOM	3	CD2	TRP	A	1	43.370	102.419	55.430	1.00	34.60
ATOM	4	CE2	TRP	A	1	43.472	103.183	56.611	1.00	36.49
ATOM	5	CE3	TRP	A	1	42.197	102.498	54.668	1.00	33.51
ATOM	6	CD1	TRP	A	1	45.362	102.028	56.364	1.00	35.00
ATOM	7	NE1	TRP	A	1	44.699	102.927	57.162	1.00	38.35
ATOM	8	CZ2	TRP	A	1	42.442	104.021	57.050	1.00	41.04
ATOM	9	CZ3	TRP	A	1	41.175	103.329	55.101	1.00	43.77
ATOM	10	CH2	TRP	A	1	41.305	104.079	56.283	1.00	43.40
ATOM	11	C	TRP	A	1	44.511	98.531	53.147	1.00	33.18
ATOM	12	O	TRP	A	1	45.609	97.989	53.262	1.00	39.15
ATOM	13	N	TRP	A	1	44.067	98.845	55.573	1.00	31.63
ATOM	14	CA	TRP	A	1	44.023	99.499	54.218	1.00	33.36
ATOM	15	N	THR	A	2	43.699	98.326	52.113	1.00	31.17
ATOM	16	CA	THR	A	2	44.024	97.429	51.006	1.00	31.39
ATOM	17	CB	THR	A	2	42.819	96.529	50.653	1.00	34.25
ATOM	18	OG1	THR	A	2	42.403	95.807	51.827	1.00	36.30
ATOM	19	CG2	THR	A	2	43.201	95.525	49.554	1.00	38.25
ATOM	20	C	THR	A	2	44.351	98.300	49.782	1.00	38.72
ATOM	21	O	THR	A	2	43.583	99.194	49.409	1.00	33.89
ATOM	22	N	TYR	A	3	45.474	98.011	49.148	1.00	34.19
ATOM	23	CA	TYR	A	3	45.910	98.786	47.998	1.00	35.08
ATOM	24	CB	TYR	A	3	47.412	99.029	48.115	1.00	30.38
ATOM	25	CG	TYR	A	3	47.797	99.725	49.401	1.00	33.32
ATOM	26	CD1	TYR	A	3	47.527	101.083	49.595	1.00	36.35
ATOM	27	CE1	TYR	A	3	47.846	101.720	50.792	1.00	37.83
ATOM	28	CD2	TYR	A	3	48.406	99.022	50.437	1.00	36.07
ATOM	29	CE2	TYR	A	3	48.736	99.651	51.639	1.00	38.58
ATOM	30	CZ	TYR	A	3	48.448	100.996	51.808	1.00	34.51
ATOM	31	OH	TYR	A	3	48.742	101.601	52.999	1.00	41.08
ATOM	32	C	TYR	A	3	45.574	98.103	46.681	1.00	35.82
ATOM	33	O	TYR	A	3	45.467	96.877	46.605	1.00	36.33
ATOM	34	N	HIS	A	4	45.401	98.911	45.639	1.00	31.58
ATOM	35	CA	HIS	A	4	45.080	98.405	44.314	1.00	33.30
ATOM	36	CB	HIS	A	4	43.569	98.409	44.071	1.00	35.66
ATOM	37	CG	HIS	A	4	42.782	97.614	45.064	1.00	43.95
ATOM	38	CD2	HIS	A	4	42.172	97.979	46.219	1.00	48.86
ATOM	39	ND1	HIS	A	4	42.474	96.284	44.871	1.00	45.26
ATOM	40	CE1	HIS	A	4	41.697	95.868	45.857	1.00	47.79
ATOM	41	NE2	HIS	A	4	41.496	96.877	46.687	1.00	44.06
ATOM	42	C	HIS	A	4	45.711	99.357	43.301	1.00	32.06
ATOM	43	O	HIS	A	4	45.979	100.511	43.616	1.00	33.90
ATOM	44	N	TYR	A	5	45.961	98.879	42.091	1.00	30.19
ATOM	45	CA	TYR	A	5	46.531	99.777	41.097	1.00	32.95
ATOM	46	CB	TYR	A	5	48.061	99.704	41.116	1.00	31.50
ATOM	47	CG	TYR	A	5	48.619	98.350	40.740	1.00	32.17
ATOM	48	CD1	TYR	A	5	48.816	97.361	41.707	1.00	36.97
ATOM	49	CE1	TYR	A	5	49.298	96.089	41.349	1.00	36.10
ATOM	50	CD2	TYR	A	5	48.917	98.046	39.418	1.00	36.41
ATOM	51	CE2	TYR	A	5	49.390	96.785	39.055	1.00	38.76
ATOM	52	CZ	TYR	A	5	49.574	95.815	40.021	1.00	39.24
ATOM	53	OH	TYR	A	5	49.991	94.557	39.646	1.00	43.09
ATOM	54	C	TYR	A	5	45.960	99.410	39.742	1.00	33.78
ATOM	55	O	TYR	A	5	45.506	98.282	39.541	1.00	33.45
ATOM	56	N	SER	A	6	45.932	100.368	38.823	1.00	30.68
ATOM	57	CA	SER	A	6	45.383	100.106	37.502	1.00	33.90
ATOM	58	CB	SER	A	6	44.870	101.409	36.866	1.00	30.13
ATOM	59	OG	SER	A	6	45.948	102.315	36.631	1.00	31.35
ATOM	60	C	SER	A	6	46.497	99.528	36.651	1.00	32.99
ATOM	61	O	SER	A	6	47.652	99.927	36.785	1.00	34.22
ATOM	62	N	THR	A	7	46.153	98.590	35.777	1.00	34.91
ATOM	63	CA	THR	A	7	47.157	97.989	34.909	1.00	37.99
ATOM	64	CB	THR	A	7	46.719	96.578	34.426	1.00	42.96
ATOM	65	OG1	THR	A	7	45.384	96.641	33.918	1.00	48.67

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ATOM     66  CG2 THR A   7      46.764  95.588  35.586  1.00 40.60
ATOM     67  C   THR A   7      47.439  98.891  33.711  1.00 34.88
ATOM     68  O   THR A   7      48.499  98.797  33.107  1.00 38.47
ATOM     69  N   LYS A   8      46.501  99.773  33.377  1.00 36.73
ATOM     70  CA  LYS A   8      46.699 100.720  32.268  1.00 38.64
ATOM     71  CB  LYS A   8      45.435 100.797  31.401  1.00 41.30
ATOM     72  CG  LYS A   8      45.169  99.494  30.660  1.00 49.69
ATOM     73  CD  LYS A   8      43.794  99.422  30.011  1.00 57.18
ATOM     74  CE  LYS A   8      43.716 100.213  28.711  1.00 63.09
ATOM     75  NZ  LYS A   8      43.630 101.674  28.932  1.00 63.17
ATOM     76  C   LYS A   8      47.057 102.102  32.842  1.00 39.32
ATOM     77  O   LYS A   8      46.833 102.361  34.031  1.00 38.77
ATOM     78  N   ALA A   9      47.633 102.982  32.025  1.00 33.37
ATOM     79  CA  ALA A   9      48.005 104.308  32.529  1.00 31.56
ATOM     80  CB  ALA A   9      49.409 104.655  32.064  1.00 33.84
ATOM     81  C   ALA A   9      47.008 105.375  32.058  1.00 32.61
ATOM     82  O   ALA A   9      46.584 105.363  30.898  1.00 31.83
ATOM     83  N   TYR A  10      46.643 106.291  32.960  1.00 31.64
ATOM     84  CA  TYR A  10      45.702 107.383  32.655  1.00 27.55
ATOM     85  CB  TYR A  10      44.368 107.145  33.364  1.00 30.29
ATOM     86  CG  TYR A  10      43.824 105.752  33.230  1.00 32.50
ATOM     87  CD1 TYR A  10      43.435 105.248  31.993  1.00 33.43
ATOM     88  CE1 TYR A  10      42.900 103.958  31.871  1.00 34.53
ATOM     89  CD2 TYR A  10      43.669 104.940  34.352  1.00 36.72
ATOM     90  CE2 TYR A  10      43.138 103.658  34.240  1.00 38.59
ATOM     91  CZ  TYR A  10      42.761 103.175  32.999  1.00 38.94
ATOM     92  OH  TYR A  10      42.290 101.886  32.881  1.00 42.65
ATOM     93  C   TYR A  10      46.231 108.731  33.163  1.00 29.18
ATOM     94  O   TYR A  10      47.220 108.789  33.901  1.00 26.56
ATOM     95  N   SER A  11      45.548 109.815  32.783  1.00 28.89
ATOM     96  CA  SER A  11      45.912 111.143  33.270  1.00 28.96
ATOM     97  CB  SER A  11      44.991 112.210  32.664  1.00 32.04
ATOM     98  OG  SER A  11      43.676 112.006  33.160  1.00 28.45
ATOM     99  C   SER A  11      45.626 111.085  34.786  1.00 25.37
ATOM    100  O   SER A  11      44.991 110.161  35.254  1.00 28.86
ATOM    101  N   TRP A  12      46.081 112.076  35.543  1.00 24.70
ATOM    102  CA  TRP A  12      45.838 112.090  36.981  1.00 28.72
ATOM    103  CB  TRP A  12      46.497 113.323  37.629  1.00 27.19
ATOM    104  CG  TRP A  12      46.433 113.334  39.142  1.00 28.63
ATOM    105  CD2 TRP A  12      45.384 113.879  39.950  1.00 30.67
ATOM    106  CE2 TRP A  12      45.755 113.689  41.304  1.00 32.78
ATOM    107  CE3 TRP A  12      44.161 114.515  39.660  1.00 29.19
ATOM    108  CD1 TRP A  12      47.377 112.843  40.022  1.00 29.98
ATOM    109  NE1 TRP A  12      46.978 113.059  41.317  1.00 28.73
ATOM    110  CZ2 TRP A  12      44.945 114.106  42.371  1.00 30.43
ATOM    111  CZ3 TRP A  12      43.352 114.937  40.730  1.00 31.03
ATOM    112  CH2 TRP A  12      43.747 114.730  42.060  1.00 33.62
ATOM    113  C   TRP A  12      44.329 112.113  37.275  1.00 29.69
ATOM    114  O   TRP A  12      43.853 111.387  38.136  1.00 26.76
ATOM    115  N   ASN A  13      43.584 112.962  36.563  1.00 28.91
ATOM    116  CA  ASN A  13      42.148 113.060  36.781  1.00 31.99
ATOM    117  CB  ASN A  13      41.543 114.170  35.888  1.00 35.28
ATOM    118  CG  ASN A  13      41.846 115.583  36.405  1.00 42.03
ATOM    119  OD1 ASN A  13      41.850 115.829  37.611  1.00 41.76
ATOM    120  ND2 ASN A  13      42.069 116.516  35.488  1.00 44.04
ATOM    121  C   ASN A  13      41.414 111.728  36.555  1.00 30.03
ATOM    122  O   ASN A  13      40.597 111.329  37.378  1.00 30.76
ATOM    123  N   ILE A  14      41.706 111.039  35.451  1.00 26.62
ATOM    124  CA  ILE A  14      41.067 109.759  35.153  1.00 27.95
ATOM    125  CB  ILE A  14      41.307 109.356  33.666  1.00 31.46
ATOM    126  CG2 ILE A  14      40.624 108.030  33.336  1.00 30.19
ATOM    127  CG1 ILE A  14      40.702 110.435  32.744  1.00 34.62
ATOM    128  CD1 ILE A  14      39.261 110.750  33.059  1.00 34.31
ATOM    129  C   ILE A  14      41.575 108.685  36.140  1.00 31.36
ATOM    130  O   ILE A  14      40.827 107.785  36.541  1.00 29.16
ATOM    131  N   SER A  15      42.835 108.803  36.564  1.00 28.87
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ATOM 132 CA SER A 15 43.350 107.870 37.568 1.00 29.96
ATOM 133 CB SER A 15 44.842 108.115 37.806 1.00 30.28
ATOM 134 OG SER A 15 45.566 107.741 36.651 1.00 30.40
ATOM 135 C SER A 15 42.561 108.072 38.871 1.00 28.30
ATOM 136 O SER A 15 42.187 107.100 39.529 1.00 32.55
ATOM 137 N ARG A 16 42.296 109.317 39.264 1.00 27.92
ATOM 138 CA ARG A 16 41.517 109.495 40.494 1.00 30.35
ATOM 139 CB ARG A 16 41.407 110.960 40.913 1.00 29.74
ATOM 140 CG ARG A 16 40.806 111.063 42.328 1.00 32.47
ATOM 141 CD ARG A 16 40.767 112.461 42.865 1.00 34.15
ATOM 142 NE ARG A 16 40.404 112.418 44.278 1.00 32.26
ATOM 143 CZ ARG A 16 40.044 113.474 44.999 1.00 36.19
ATOM 144 NH1 ARG A 16 39.983 114.683 44.445 1.00 37.58
ATOM 145 NH2 ARG A 16 39.767 113.321 46.287 1.00 37.61
ATOM 146 C ARG A 16 40.109 108.911 40.320 1.00 32.35
ATOM 147 O ARG A 16 39.551 108.314 41.246 1.00 31.88
ATOM 148 N LYS A 17 39.545 109.066 39.125 1.00 38.44
ATOM 149 CA LYS A 17 38.207 108.533 38.845 1.00 36.97
ATOM 150 CB LYS A 17 37.717 109.023 37.482 1.00 39.82
ATOM 151 CG LYS A 17 36.237 108.693 37.216 1.00 47.03
ATOM 152 CD LYS A 17 35.714 109.423 35.979 1.00 52.78
ATOM 153 CE LYS A 17 34.238 109.115 35.760 1.00 57.46
ATOM 154 NZ LYS A 17 34.009 107.649 35.613 1.00 55.95
ATOM 155 C LYS A 17 38.189 106.998 38.879 1.00 38.99
ATOM 156 O LYS A 17 37.207 106.380 39.321 1.00 38.11
ATOM 157 N TYR A 18 39.272 106.384 38.406 1.00 32.36
ATOM 158 CA TYR A 18 39.390 104.934 38.417 1.00 37.18
ATOM 159 CB TYR A 18 40.736 104.529 37.825 1.00 37.81
ATOM 160 CG TYR A 18 41.083 103.068 37.952 1.00 37.24
ATOM 161 CD1 TYR A 18 41.672 102.560 39.116 1.00 36.33
ATOM 162 CE1 TYR A 18 42.008 101.204 39.220 1.00 33.98
ATOM 163 CD2 TYR A 18 40.839 102.189 36.896 1.00 37.15
ATOM 164 CE2 TYR A 18 41.171 100.847 36.983 1.00 38.80
ATOM 165 CZ TYR A 18 41.755 100.359 38.149 1.00 41.66
ATOM 166 OH TYR A 18 42.082 99.028 38.224 1.00 40.59
ATOM 167 C TYR A 18 39.313 104.465 39.875 1.00 38.00
ATOM 168 O TYR A 18 38.609 103.504 40.199 1.00 37.67
ATOM 169 N CYS A 19 40.046 105.153 40.741 1.00 34.12
ATOM 170 CA CYS A 19 40.081 104.801 42.152 1.00 34.66
ATOM 171 C CYS A 19 38.728 105.009 42.828 1.00 40.70
ATOM 172 O CYS A 19 38.265 104.140 43.576 1.00 38.84
ATOM 173 CB CYS A 19 41.128 105.635 42.872 1.00 32.78
ATOM 174 SG CYS A 19 42.885 105.286 42.473 1.00 33.74
ATOM 175 N GLN A 20 38.101 106.161 42.567 1.00 35.48
ATOM 176 CA GLN A 20 36.811 106.488 43.176 1.00 37.56
ATOM 177 CB GLN A 20 36.467 107.971 42.962 1.00 33.23
ATOM 178 CG GLN A 20 37.390 108.946 43.720 1.00 35.92
ATOM 179 CD GLN A 20 37.052 110.405 43.452 1.00 46.29
ATOM 180 OE1 GLN A 20 36.760 110.783 42.321 1.00 52.41
ATOM 181 NE2 GLN A 20 37.103 111.231 44.489 1.00 44.13
ATOM 182 C GLN A 20 35.699 105.606 42.635 1.00 41.88
ATOM 183 O GLN A 20 34.728 105.324 43.339 1.00 42.07
ATOM 184 N ASN A 21 35.834 105.143 41.396 1.00 40.62
ATOM 185 CA ASN A 21 34.800 104.288 40.825 1.00 43.79
ATOM 186 CB ASN A 21 34.891 104.258 39.303 1.00 47.39
ATOM 187 CG ASN A 21 34.359 105.513 38.663 1.00 46.48
ATOM 188 OD1 ASN A 21 33.838 106.404 39.336 1.00 46.68
ATOM 189 ND2 ASN A 21 34.494 105.594 37.348 1.00 46.53
ATOM 190 C ASN A 21 34.857 102.846 41.314 1.00 49.05
ATOM 191 O ASN A 21 33.821 102.188 41.482 1.00 47.85
ATOM 192 N ARG A 22 36.069 102.344 41.521 1.00 45.28
ATOM 193 CA ARG A 22 36.229 100.958 41.927 1.00 44.64
ATOM 194 CB ARG A 22 37.255 100.287 41.004 1.00 47.86
ATOM 195 CG ARG A 22 36.923 100.475 39.525 1.00 48.40
ATOM 196 CD ARG A 22 38.036 100.017 38.616 1.00 56.10
ATOM 197 NE ARG A 22 37.655 100.120 37.209 1.00 67.14

ATOM 198 CZ ARG A 22 37.368 101.263 36.584 1.00 75.59
ATOM 199 NH1 ARG A 22 37.415 102.421 37.238 1.00 77.73
ATOM 200 NH2 ARG A 22 37.035 101.254 35.298 1.00 76.54
ATOM 201 C ARG A 22 36.628 100.772 43.377 1.00 45.83
ATOM 202 O ARG A 22 36.302 99.752 43.986 1.00 45.48
ATOM 203 N TYR A 23 37.315 101.761 43.937 1.00 39.77
ATOM 204 CA TYR A 23 37.786 101.677 45.315 1.00 39.98
ATOM 205 CB TYR A 23 39.307 101.457 45.284 1.00 42.48
ATOM 206 CG TYR A 23 39.670 100.267 44.403 1.00 45.17
ATOM 207 CD1 TYR A 23 39.274 98.971 44.748 1.00 43.85
ATOM 208 CE1 TYR A 23 39.543 97.881 43.905 1.00 45.85
ATOM 209 CD2 TYR A 23 40.349 100.442 43.200 1.00 38.43
ATOM 210 CE2 TYR A 23 40.623 99.368 42.358 1.00 42.62
ATOM 211 CZ TYR A 23 40.215 98.093 42.711 1.00 47.04
ATOM 212 OH TYR A 23 40.453 97.043 41.860 1.00 47.66
ATOM 213 C TYR A 23 37.396 102.926 46.097 1.00 35.81
ATOM 214 O TYR A 23 36.265 103.388 45.979 1.00 41.96
ATOM 215 N THR A 24 38.286 103.483 46.909 1.00 34.35
ATOM 216 CA THR A 24 37.918 104.689 47.643 1.00 38.81
ATOM 217 CB THR A 24 38.332 104.598 49.152 1.00 42.42
ATOM 218 OG1 THR A 24 37.603 103.534 49.780 1.00 43.86
ATOM 219 CG2 THR A 24 38.028 105.898 49.889 1.00 45.08
ATOM 220 C THR A 24 38.524 105.946 47.023 1.00 40.38
ATOM 221 O THR A 24 37.808 106.903 46.695 1.00 36.02
ATOM 222 N ASP A 25 39.838 105.951 46.837 1.00 34.82
ATOM 223 CA ASP A 25 40.492 107.133 46.274 1.00 34.19
ATOM 224 CB ASP A 25 40.396 108.318 47.251 1.00 34.53
ATOM 225 CG ASP A 25 40.251 109.665 46.550 1.00 41.29
ATOM 226 OD1 ASP A 25 40.814 109.861 45.454 1.00 36.47
ATOM 227 OD2 ASP A 25 39.571 110.551 47.112 1.00 46.71
ATOM 228 C ASP A 25 41.966 106.833 46.061 1.00 35.86
ATOM 229 O ASP A 25 42.433 105.725 46.349 1.00 30.52
ATOM 230 N LEU A 26 42.687 107.827 45.544 1.00 31.46
ATOM 231 CA LEU A 26 44.133 107.696 45.346 1.00 31.43
ATOM 232 CB LEU A 26 44.686 108.916 44.605 1.00 29.42
ATOM 233 CG LEU A 26 44.429 108.952 43.104 1.00 29.15
ATOM 234 CD1 LEU A 26 44.704 110.370 42.586 1.00 29.78
ATOM 235 CD2 LEU A 26 45.350 107.926 42.399 1.00 31.78
ATOM 236 C LEU A 26 44.771 107.648 46.725 1.00 32.79
ATOM 237 O LEU A 26 44.297 108.294 47.673 1.00 32.03
ATOM 238 N VAL A 27 45.865 106.907 46.850 1.00 33.67
ATOM 239 CA VAL A 27 46.521 106.838 48.138 1.00 30.86
ATOM 240 CB VAL A 27 47.719 105.861 48.110 1.00 33.30
ATOM 241 CG1 VAL A 27 47.216 104.453 47.747 1.00 29.74
ATOM 242 CG2 VAL A 27 48.767 106.334 47.110 1.00 32.46
ATOM 243 C VAL A 27 46.985 108.207 48.601 1.00 33.40
ATOM 244 O VAL A 27 47.381 109.060 47.808 1.00 34.50
ATOM 245 N ALA A 28 46.889 108.425 49.899 1.00 33.73
ATOM 246 CA ALA A 28 47.323 109.669 50.510 1.00 46.62
ATOM 247 CB ALA A 28 46.249 110.222 51.400 1.00 45.94
ATOM 248 C ALA A 28 48.507 109.214 51.341 1.00 55.74
ATOM 249 O ALA A 28 48.402 109.050 52.557 1.00 62.89
ATOM 250 N ILE A 29 49.610 108.955 50.649 1.00 57.78
ATOM 251 CA ILE A 29 50.852 108.492 51.251 1.00 60.08
ATOM 252 CB ILE A 29 52.010 108.701 50.276 1.00 60.16
ATOM 253 CG2 ILE A 29 53.337 108.465 50.968 1.00 62.05
ATOM 254 CG1 ILE A 29 51.851 107.746 49.101 1.00 56.46
ATOM 255 CD1 ILE A 29 52.856 107.982 48.027 1.00 63.76
ATOM 256 C ILE A 29 51.159 109.224 52.536 1.00 64.02
ATOM 257 O ILE A 29 51.819 110.263 52.525 1.00 65.69
ATOM 258 N GLN A 30 50.709 108.668 53.653 1.00 67.54
ATOM 259 CA GLN A 30 50.930 109.329 54.922 1.00 68.15
ATOM 260 CB GLN A 30 49.892 108.887 55.951 1.00 71.83
ATOM 261 CG GLN A 30 50.043 109.643 57.270 1.00 77.58
ATOM 262 CD GLN A 30 49.077 109.187 58.353 1.00 82.74
ATOM 263 OE1 GLN A 30 49.138 109.667 59.491 1.00 83.25

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ATOM	264	NE2	GLN	A	30	48.181	108.261	58.010	1.00	79.70
ATOM	265	C	GLN	A	30	52.312	109.177	55.542	1.00	68.29
ATOM	266	O	GLN	A	30	52.918	110.176	55.938	1.00	72.68
ATOM	267	N	ASN	A	31	52.827	107.955	55.614	1.00	59.48
ATOM	268	CA	ASN	A	31	54.111	107.757	56.280	1.00	55.43
ATOM	269	CB	ASN	A	31	53.845	107.222	57.685	1.00	57.85
ATOM	270	CG	ASN	A	31	53.130	105.894	57.667	1.00	62.17
ATOM	271	OD1	ASN	A	31	53.669	104.894	57.190	1.00	64.25
ATOM	272	ND2	ASN	A	31	51.905	105.872	58.183	1.00	66.68
ATOM	273	C	ASN	A	31	55.161	106.877	55.604	1.00	53.54
ATOM	274	O	ASN	A	31	54.860	106.098	54.700	1.00	45.95
ATOM	275	N	ALA	A	32	56.400	107.009	56.079	1.00	50.58
ATOM	276	CA	ALA	A	32	57.541	106.261	55.550	1.00	52.28
ATOM	277	CB	ALA	A	32	58.776	106.526	56.405	1.00	54.06
ATOM	278	C	ALA	A	32	57.266	104.767	55.479	1.00	51.53
ATOM	279	O	ALA	A	32	57.709	104.091	54.551	1.00	53.06
ATOM	280	N	ASN	A	33	56.529	104.255	56.460	1.00	52.29
ATOM	281	CA	ASN	A	33	56.187	102.840	56.513	1.00	52.95
ATOM	282	CB	ASN	A	33	55.491	102.523	57.835	1.00	63.42
ATOM	283	CG	ASN	A	33	56.447	102.544	59.016	1.00	67.88
ATOM	284	OD1	ASN	A	33	57.239	103.477	59.180	1.00	74.12
ATOM	285	ND2	ASN	A	33	56.371	101.517	59.851	1.00	71.91
ATOM	286	C	ASN	A	33	55.296	102.412	55.360	1.00	51.35
ATOM	287	O	ASN	A	33	55.445	101.315	54.820	1.00	50.61
ATOM	288	N	GLU	A	34	54.356	103.274	54.995	1.00	48.72
ATOM	289	CA	GLU	A	34	53.457	102.981	53.892	1.00	50.13
ATOM	290	CB	GLU	A	34	52.330	104.016	53.849	1.00	51.22
ATOM	291	CG	GLU	A	34	51.251	103.745	52.813	1.00	59.32
ATOM	292	CD	GLU	A	34	50.012	104.630	52.994	1.00	67.69
ATOM	293	OE1	GLU	A	34	49.029	104.425	52.248	1.00	70.38
ATOM	294	OE2	GLU	A	34	50.017	105.525	53.874	1.00	69.15
ATOM	295	C	GLU	A	34	54.262	103.022	52.598	1.00	42.48
ATOM	296	O	GLU	A	34	54.101	102.174	51.716	1.00	39.28
ATOM	297	N	ILE	A	35	55.132	104.017	52.487	1.00	41.33
ATOM	298	CA	ILE	A	35	55.956	104.147	51.290	1.00	36.40
ATOM	299	CB	ILE	A	35	56.823	105.422	51.366	1.00	37.38
ATOM	300	CG2	ILE	A	35	57.781	105.481	50.172	1.00	36.48
ATOM	301	CG1	ILE	A	35	55.916	106.660	51.385	1.00	35.84
ATOM	302	CD1	ILE	A	35	56.679	107.979	51.539	1.00	38.94
ATOM	303	C	ILE	A	35	56.853	102.909	51.160	1.00	38.76
ATOM	304	O	ILE	A	35	56.977	102.327	50.082	1.00	36.33
ATOM	305	N	ASP	A	36	57.462	102.484	52.263	1.00	39.96
ATOM	306	CA	ASP	A	36	58.340	101.314	52.204	1.00	42.95
ATOM	307	CB	ASP	A	36	58.989	101.036	53.562	1.00	49.15
ATOM	308	CG	ASP	A	36	60.001	102.094	53.940	1.00	60.92
ATOM	309	OD1	ASP	A	36	60.650	102.638	53.015	1.00	62.86
ATOM	310	OD2	ASP	A	36	60.150	102.379	55.153	1.00	64.46
ATOM	311	C	ASP	A	36	57.584	100.091	51.744	1.00	40.45
ATOM	312	O	ASP	A	36	58.061	99.335	50.896	1.00	39.36
ATOM	313	N	TYR	A	37	56.394	99.899	52.296	1.00	38.68
ATOM	314	CA	TYR	A	37	55.562	98.764	51.925	1.00	37.76
ATOM	315	CB	TYR	A	37	54.318	98.721	52.824	1.00	38.51
ATOM	316	CG	TYR	A	37	53.357	97.619	52.470	1.00	43.27
ATOM	317	CD1	TYR	A	37	53.525	96.332	52.985	1.00	46.62
ATOM	318	CE1	TYR	A	37	52.657	95.315	52.648	1.00	48.19
ATOM	319	CD2	TYR	A	37	52.290	97.853	51.604	1.00	41.81
ATOM	320	CE2	TYR	A	37	51.418	96.842	51.259	1.00	43.65
ATOM	321	CZ	TYR	A	37	51.609	95.576	51.786	1.00	48.97
ATOM	322	OH	TYR	A	37	50.749	94.570	51.456	1.00	49.66
ATOM	323	C	TYR	A	37	55.132	98.798	50.446	1.00	36.74
ATOM	324	O	TYR	A	37	55.227	97.785	49.740	1.00	34.03
ATOM	325	N	LEU	A	38	54.646	99.949	49.973	1.00	34.20
ATOM	326	CA	LEU	A	38	54.215	100.045	48.572	1.00	30.32
ATOM	327	CB	LEU	A	38	53.544	101.392	48.300	1.00	32.53
ATOM	328	CG	LEU	A	38	52.178	101.545	48.991	1.00	36.80
ATOM	329	CD1	LEU	A	38	51.695	102.989	48.861	1.00	38.78

Translation-Activation

ATOM	330	CD2	LEU	A	38	51.183	100.547	48.384	1.00	32.41
ATOM	331	C	LEU	A	38	55.397	99.861	47.611	1.00	29.03
ATOM	332	O	LEU	A	38	55.270	99.228	46.564	1.00	30.81
ATOM	333	N	ASN	A	39	56.541	100.428	47.969	1.00	31.02
ATOM	334	CA	ASN	A	39	57.719	100.292	47.107	1.00	35.60
ATOM	335	CB	ASN	A	39	58.897	101.059	47.697	1.00	33.01
ATOM	336	CG	ASN	A	39	60.039	101.204	46.706	1.00	43.34
ATOM	337	OD1	ASN	A	39	59.886	101.846	45.666	1.00	33.35
ATOM	338	ND2	ASN	A	39	61.190	100.603	47.022	1.00	35.33
ATOM	339	C	ASN	A	39	58.097	98.822	46.990	1.00	35.76
ATOM	340	O	ASN	A	39	58.632	98.367	45.970	1.00	35.54
ATOM	341	N	LYS	A	40	57.812	98.073	48.050	1.00	38.67
ATOM	342	CA	LYS	A	40	58.129	96.653	48.066	1.00	39.70
ATOM	343	CB	LYS	A	40	58.250	96.159	49.517	1.00	39.05
ATOM	344	CG	LYS	A	40	58.472	94.663	49.660	1.00	51.28
ATOM	345	CD	LYS	A	40	59.041	94.310	51.035	1.00	51.81
ATOM	346	CE	LYS	A	40	58.076	94.620	52.154	1.00	58.53
ATOM	347	NZ	LYS	A	40	56.870	93.747	52.127	1.00	61.02
ATOM	348	C	LYS	A	40	57.141	95.784	47.305	1.00	37.49
ATOM	349	O	LYS	A	40	57.557	94.945	46.515	1.00	37.68
ATOM	350	N	VAL	A	41	55.836	95.989	47.508	1.00	36.03
ATOM	351	CA	VAL	A	41	54.841	95.136	46.856	1.00	34.88
ATOM	352	CB	VAL	A	41	53.581	94.984	47.744	1.00	41.35
ATOM	353	CG1	VAL	A	41	53.992	94.581	49.149	1.00	45.79
ATOM	354	CG2	VAL	A	41	52.785	96.289	47.780	1.00	38.28
ATOM	355	C	VAL	A	41	54.380	95.473	45.431	1.00	35.64
ATOM	356	O	VAL	A	41	53.961	94.580	44.693	1.00	35.45
ATOM	357	N	LEU	A	42	54.433	96.748	45.045	1.00	35.00
ATOM	358	CA	LEU	A	42	54.005	97.157	43.707	1.00	33.40
ATOM	359	CB	LEU	A	42	53.713	98.664	43.677	1.00	32.62
ATOM	360	CG	LEU	A	42	52.552	99.134	44.554	1.00	31.20
ATOM	361	CD1	LEU	A	42	52.559	100.668	44.702	1.00	34.56
ATOM	362	CD2	LEU	A	42	51.252	98.666	43.897	1.00	28.52
ATOM	363	C	LEU	A	42	55.009	96.850	42.599	1.00	36.22
ATOM	364	O	LEU	A	42	56.215	96.965	42.786	1.00	35.00
ATOM	365	N	PRO	A	43	54.512	96.464	41.421	1.00	34.50
ATOM	366	CD	PRO	A	43	53.104	96.229	41.057	1.00	36.02
ATOM	367	CA	PRO	A	43	55.413	96.167	40.309	1.00	36.91
ATOM	368	CB	PRO	A	43	54.527	95.444	39.320	1.00	33.97
ATOM	369	CG	PRO	A	43	53.173	96.092	39.545	1.00	39.19
ATOM	370	C	PRO	A	43	55.957	97.461	39.710	1.00	39.55
ATOM	371	O	PRO	A	43	55.343	98.538	39.828	1.00	32.04
ATOM	372	N	TYR	A	44	57.109	97.342	39.066	1.00	29.80
ATOM	373	CA	TYR	A	44	57.737	98.476	38.417	1.00	32.64
ATOM	374	CB	TYR	A	44	59.215	98.189	38.143	1.00	35.88
ATOM	375	CG	TYR	A	44	59.840	99.246	37.262	1.00	32.82
ATOM	376	CD1	TYR	A	44	60.257	100.462	37.795	1.00	35.86
ATOM	377	CE1	TYR	A	44	60.800	101.463	36.975	1.00	36.85
ATOM	378	CD2	TYR	A	44	59.972	99.041	35.890	1.00	35.33
ATOM	379	CE2	TYR	A	44	60.508	100.035	35.062	1.00	41.08
ATOM	380	CZ	TYR	A	44	60.918	101.237	35.617	1.00	36.75
ATOM	381	OH	TYR	A	44	61.450	102.218	34.816	1.00	41.30
ATOM	382	C	TYR	A	44	57.068	98.818	37.084	1.00	34.24
ATOM	383	O	TYR	A	44	56.775	97.940	36.272	1.00	31.65
ATOM	384	N	TYR	A	45	56.812	100.106	36.890	1.00	31.13
ATOM	385	CA	TYR	A	45	56.256	100.643	35.635	1.00	33.36
ATOM	386	CB	TYR	A	45	54.783	101.018	35.783	1.00	33.18
ATOM	387	CG	TYR	A	45	53.814	99.861	35.809	1.00	34.03
ATOM	388	CD1	TYR	A	45	53.662	99.010	34.707	1.00	33.71
ATOM	389	CE1	TYR	A	45	52.711	97.974	34.718	1.00	33.92
ATOM	390	CD2	TYR	A	45	53.001	99.654	36.922	1.00	33.23
ATOM	391	CE2	TYR	A	45	52.055	98.633	36.947	1.00	33.85
ATOM	392	CZ	TYR	A	45	51.916	97.797	35.843	1.00	38.12
ATOM	393	OH	TYR	A	45	50.982	96.784	35.898	1.00	36.48
ATOM	394	C	TYR	A	45	57.071	101.923	35.363	1.00	28.39
ATOM	395	O	TYR	A	45	57.220	102.775	36.265	1.00	29.34

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ATOM	396	N	SER	A	46	57.564	102.091	34.131	1.00 28.43
ATOM	397	CA	SER	A	46	58.389	103.260	33.817	1.00 32.26
ATOM	398	CB	SER	A	46	58.974	103.157	32.397	1.00 33.68
ATOM	399	OG	SER	A	46	57.971	103.227	31.399	1.00 39.47
ATOM	400	C	SER	A	46	57.640	104.596	33.959	1.00 32.41
ATOM	401	O	SER	A	46	58.248	105.636	34.155	1.00 28.10
ATOM	402	N	SER	A	47	56.323	104.554	33.857	1.00 30.95
ATOM	403	CA	SER	A	47	55.511	105.777	34.000	1.00 30.08
ATOM	404	CB	SER	A	47	54.195	105.604	33.265	1.00 33.09
ATOM	405	OG	SER	A	47	53.497	104.496	33.811	1.00 32.04
ATOM	406	C	SER	A	47	55.204	106.045	35.464	1.00 32.92
ATOM	407	O	SER	A	47	54.662	107.105	35.809	1.00 30.63
ATOM	408	N	TYR	A	48	55.528	105.071	36.319	1.00 29.95
ATOM	409	CA	TYR	A	48	55.280	105.183	37.757	1.00 28.39
ATOM	410	CB	TYR	A	48	56.096	106.331	38.366	1.00 29.09
ATOM	411	CG	TYR	A	48	57.591	106.088	38.266	1.00 28.85
ATOM	412	CD1	TYR	A	48	58.201	105.057	38.993	1.00 31.54
ATOM	413	CE1	TYR	A	48	59.581	104.789	38.860	1.00 34.51
ATOM	414	CD2	TYR	A	48	58.384	106.855	37.409	1.00 34.02
ATOM	415	CE2	TYR	A	48	59.759	106.599	37.266	1.00 34.88
ATOM	416	CZ	TYR	A	48	60.347	105.564	37.991	1.00 36.73
ATOM	417	OH	TYR	A	48	61.696	105.302	37.804	1.00 35.29
ATOM	418	C	TYR	A	48	53.801	105.326	38.111	1.00 27.63
ATOM	419	O	TYR	A	48	52.940	104.956	37.320	1.00 26.70
ATOM	420	N	TYR	A	49	53.527	105.865	39.298	1.00 27.13
ATOM	421	CA	TYR	A	49	52.167	105.938	39.805	1.00 29.18
ATOM	422	CB	TYR	A	49	52.015	104.947	40.967	1.00 28.33
ATOM	423	CG	TYR	A	49	52.276	103.467	40.659	1.00 31.30
ATOM	424	CD1	TYR	A	49	53.582	102.982	40.433	1.00 32.99
ATOM	425	CE1	TYR	A	49	53.830	101.592	40.276	1.00 26.75
ATOM	426	CD2	TYR	A	49	51.230	102.546	40.704	1.00 29.49
ATOM	427	CE2	TYR	A	49	51.460	101.168	40.547	1.00 33.15
ATOM	428	CZ	TYR	A	49	52.753	100.704	40.343	1.00 32.12
ATOM	429	OH	TYR	A	49	52.950	99.348	40.249	1.00 32.35
ATOM	430	C	TYR	A	49	51.735	107.306	40.340	1.00 24.24
ATOM	431	O	TYR	A	49	52.506	108.002	40.974	1.00 29.31
ATOM	432	N	TRP	A	50	50.466	107.625	40.139	1.00 29.66
ATOM	433	CA	TRP	A	50	49.905	108.881	40.631	1.00 25.40
ATOM	434	CB	TRP	A	50	48.668	109.247	39.807	1.00 26.46
ATOM	435	CG	TRP	A	50	48.907	109.763	38.426	1.00 21.70
ATOM	436	CD2	TRP	A	50	49.690	110.910	38.058	1.00 21.91
ATOM	437	CE2	TRP	A	50	49.511	111.110	36.670	1.00 24.44
ATOM	438	CE3	TRP	A	50	50.522	111.792	38.772	1.00 26.40
ATOM	439	CD1	TRP	A	50	48.311	109.321	37.276	1.00 23.81
ATOM	440	NE1	TRP	A	50	48.668	110.128	36.218	1.00 24.53
ATOM	441	CZ2	TRP	A	50	50.128	112.161	35.975	1.00 28.61
ATOM	442	CZ3	TRP	A	50	51.139	112.848	38.083	1.00 27.93
ATOM	443	CH2	TRP	A	50	50.935	113.019	36.700	1.00 28.44
ATOM	444	C	TRP	A	50	49.442	108.688	42.080	1.00 26.30
ATOM	445	O	TRP	A	50	48.904	107.642	42.416	1.00 26.94
ATOM	446	N	ILE	A	51	49.637	109.697	42.926	1.00 26.14
ATOM	447	CA	ILE	A	51	49.133	109.643	44.284	1.00 28.88
ATOM	448	CB	ILE	A	51	50.275	109.573	45.335	1.00 26.71
ATOM	449	CG2	ILE	A	51	51.100	108.274	45.076	1.00 29.42
ATOM	450	CG1	ILE	A	51	51.153	110.829	45.274	1.00 28.98
ATOM	451	CD1	ILE	A	51	52.171	110.895	46.421	1.00 32.95
ATOM	452	C	ILE	A	51	48.225	110.865	44.519	1.00 26.78
ATOM	453	O	ILE	A	51	48.210	111.780	43.708	1.00 26.15
ATOM	454	N	GLY	A	52	47.486	110.855	45.628	1.00 33.61
ATOM	455	CA	GLY	A	52	46.538	111.918	45.940	1.00 31.41
ATOM	456	C	GLY	A	52	47.035	113.255	46.432	1.00 27.92
ATOM	457	O	GLY	A	52	46.544	113.754	47.437	1.00 33.78
ATOM	458	N	ILE	A	53	47.991	113.849	45.719	1.00 27.46
ATOM	459	CA	ILE	A	53	48.525	115.149	46.086	1.00 31.31
ATOM	460	CB	ILE	A	53	49.973	115.070	46.608	1.00 33.18
ATOM	461	CG2	ILE	A	53	50.489	116.468	46.877	1.00 35.52

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ATOM    462  CG1 ILE A  53      50.024 114.254  47.902  1.00 35.92
ATOM    463  CD1 ILE A  53      51.441 114.068  48.453  1.00 38.50
ATOM    464  C   ILE A  53      48.517 115.977  44.811  1.00 35.88
ATOM    465  O   ILE A  53      48.964 115.508  43.759  1.00 31.30
ATOM    466  N   ARG A  54      48.010 117.202  44.906  1.00 30.27
ATOM    467  CA  ARG A  54      47.932 118.090  43.749  1.00 31.44
ATOM    468  CB  ARG A  54      46.592 117.882  43.040  1.00 33.46
ATOM    469  CG  ARG A  54      46.473 118.699  41.776  1.00 38.51
ATOM    470  CD  ARG A  54      45.280 118.288  40.910  1.00 37.95
ATOM    471  NE  ARG A  54      45.333 119.055  39.667  1.00 42.91
ATOM    472  CZ  ARG A  54      44.713 118.741  38.539  1.00 41.26
ATOM    473  NH1 ARG A  54      43.955 117.659  38.459  1.00 43.03
ATOM    474  NH2 ARG A  54      44.883 119.509  37.474  1.00 46.59
ATOM    475  C   ARG A  54      48.101 119.558  44.164  1.00 34.27
ATOM    476  O   ARG A  54      47.732 119.958  45.274  1.00 34.06
ATOM    477  N   LYS A  55      48.680 120.362  43.282  1.00 33.76
ATOM    478  CA  LYS A  55      48.909 121.752  43.622  1.00 41.35
ATOM    479  CB  LYS A  55      50.108 122.301  42.825  1.00 42.13
ATOM    480  CG  LYS A  55      50.590 123.674  43.280  1.00 48.72
ATOM    481  CD  LYS A  55      52.007 123.987  42.802  1.00 55.71
ATOM    482  CE  LYS A  55      52.119 123.944  41.290  1.00 56.50
ATOM    483  NZ  LYS A  55      53.521 124.144  40.823  1.00 57.30
ATOM    484  C   LYS A  55      47.668 122.585  43.362  1.00 45.73
ATOM    485  O   LYS A  55      47.173 122.616  42.243  1.00 47.62
ATOM    486  N   ASN A  56      47.167 123.227  44.420  1.00 46.05
ATOM    487  CA  ASN A  56      46.001 124.110  44.370  1.00 51.81
ATOM    488  CB  ASN A  56      45.134 123.897  45.618  1.00 57.81
ATOM    489  CG  ASN A  56      43.920 124.809  45.650  1.00 62.10
ATOM    490  OD1 ASN A  56      44.033 126.010  45.431  1.00 69.24
ATOM    491  ND2 ASN A  56      42.754 124.242  45.936  1.00 63.35
ATOM    492  C   ASN A  56      46.575 125.536  44.353  1.00 56.74
ATOM    493  O   ASN A  56      47.115 126.020  45.364  1.00 49.14
ATOM    494  N   ALA A  57      46.461 126.200  43.204  1.00 57.81
ATOM    495  CA  ALA A  57      47.011 127.538  43.032  1.00 59.85
ATOM    496  CB  ALA A  57      46.531 128.475  44.153  1.00 59.83
ATOM    497  C   ALA A  57      48.523 127.336  43.099  1.00 58.65
ATOM    498  O   ALA A  57      49.161 127.039  42.090  1.00 62.92
ATOM    499  N   ALA A  58      49.099 127.472  44.286  1.00 58.64
ATOM    500  CA  ALA A  58      50.536 127.274  44.443  1.00 59.03
ATOM    501  CB  ALA A  58      51.256 128.626  44.487  1.00 60.74
ATOM    502  C   ALA A  58      50.832 126.468  45.707  1.00 56.31
ATOM    503  O   ALA A  58      51.987 126.309  46.105  1.00 60.49
ATOM    504  N   THR A  59      49.778 125.954  46.329  1.00 53.12
ATOM    505  CA  THR A  59      49.911 125.166  47.548  1.00 50.54
ATOM    506  CB  THR A  59      48.845 125.569  48.579  1.00 55.41
ATOM    507  OG1 THR A  59      48.916 126.982  48.807  1.00 62.99
ATOM    508  CG2 THR A  59      49.061 124.827  49.891  1.00 48.01
ATOM    509  C   THR A  59      49.746 123.671  47.299  1.00 47.42
ATOM    510  O   THR A  59      48.712 123.234  46.797  1.00 41.59
ATOM    511  N   TRP A  60      50.759 122.880  47.643  1.00 46.58
ATOM    512  CA  TRP A  60      50.629 121.438  47.471  1.00 42.32
ATOM    513  CB  TRP A  60      51.983 120.746  47.671  1.00 41.81
ATOM    514  CG  TRP A  60      52.873 120.949  46.487  1.00 38.50
ATOM    515  CD2 TRP A  60      52.728 120.336  45.200  1.00 34.99
ATOM    516  CE2 TRP A  60      53.739 120.857  44.370  1.00 36.25
ATOM    517  CE3 TRP A  60      51.837 119.394  44.667  1.00 31.44
ATOM    518  CD1 TRP A  60      53.942 121.797  46.388  1.00 35.12
ATOM    519  NE1 TRP A  60      54.464 121.748  45.116  1.00 33.94
ATOM    520  CZ2 TRP A  60      53.886 120.467  43.039  1.00 33.72
ATOM    521  CZ3 TRP A  60      51.985 119.002  43.346  1.00 30.68
ATOM    522  CH2 TRP A  60      53.003 119.540  42.547  1.00 35.30
ATOM    523  C   TRP A  60      49.607 121.000  48.501  1.00 43.28
ATOM    524  O   TRP A  60      49.717 121.345  49.676  1.00 45.53
ATOM    525  N   THR A  61      48.626 120.220  48.057  1.00 40.80
ATOM    526  CA  THR A  61      47.517 119.794  48.898  1.00 39.94
ATOM    527  CB  THR A  61      46.251 120.609  48.494  1.00 41.36
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ATOM    528  OG1 THR A  61      46.565 122.011  48.504  1.00 45.56
ATOM    529  CG2 THR A  61      45.100 120.333  49.440  1.00 45.90
ATOM    530  C   THR A  61      47.117 118.315  48.822  1.00 38.83
ATOM    531  O   THR A  61      47.092 117.731  47.740  1.00 38.06
ATOM    532  N   TRP A  62      46.792 117.715  49.965  1.00 35.68
ATOM    533  CA  TRP A  62      46.295 116.333  49.972  1.00 38.64
ATOM    534  CB  TRP A  62      46.160 115.809  51.394  1.00 46.86
ATOM    535  CG  TRP A  62      47.442 115.768  52.125  1.00 53.67
ATOM    536  CD2 TRP A  62      48.469 114.805  51.952  1.00 52.67
ATOM    537  CE2 TRP A  62      49.518 115.149  52.835  1.00 56.31
ATOM    538  CE3 TRP A  62      48.609 113.679  51.134  1.00 50.23
ATOM    539  CD1 TRP A  62      47.887 116.647  53.081  1.00 55.85
ATOM    540  NE1 TRP A  62      49.135 116.278  53.514  1.00 54.59
ATOM    541  CZ2 TRP A  62      50.694 114.406  52.919  1.00 55.29
ATOM    542  CZ3 TRP A  62      49.774 112.943  51.217  1.00 51.40
ATOM    543  CH2 TRP A  62      50.804 113.309  52.102  1.00 61.64
ATOM    544  C   TRP A  62      44.890 116.489  49.385  1.00 38.87
ATOM    545  O   TRP A  62      44.081 117.248  49.925  1.00 37.31
ATOM    546  N   VAL A  63      44.572 115.785  48.310  1.00 35.14
ATOM    547  CA  VAL A  63      43.253 115.988  47.717  1.00 37.71
ATOM    548  CB  VAL A  63      43.204 115.547  46.226  1.00 33.38
ATOM    549  CG1 VAL A  63      44.312 116.305  45.431  1.00 29.97
ATOM    550  CG2 VAL A  63      43.356 114.055  46.104  1.00 34.24
ATOM    551  C   VAL A  63      42.122 115.337  48.495  1.00 38.86
ATOM    552  O   VAL A  63      40.983 115.759  48.379  1.00 37.03
ATOM    553  N   GLY A  64      42.431 114.330  49.307  1.00 36.95
ATOM    554  CA  GLY A  64      41.385 113.698  50.095  1.00 39.40
ATOM    555  C   GLY A  64      40.894 114.622  51.219  1.00 44.14
ATOM    556  O   GLY A  64      39.714 114.944  51.292  1.00 41.74
ATOM    557  N   THR A  65      41.809 115.073  52.073  1.00 42.24
ATOM    558  CA  THR A  65      41.465 115.941  53.202  1.00 44.85
ATOM    559  CB  THR A  65      42.427 115.725  54.376  1.00 47.65
ATOM    560  OG1 THR A  65      43.741 116.142  53.977  1.00 48.31
ATOM    561  CG2 THR A  65      42.440 114.263  54.813  1.00 44.32
ATOM    562  C   THR A  65      41.494 117.440  52.905  1.00 45.59
ATOM    563  O   THR A  65      41.062 118.247  53.737  1.00 50.12
ATOM    564  N   LYS A  66      42.010 117.804  51.735  1.00 39.78
ATOM    565  CA  LYS A  66      42.147 119.185  51.296  1.00 46.57
ATOM    566  CB  LYS A  66      40.785 119.901  51.286  1.00 49.35
ATOM    567  CG  LYS A  66      39.719 119.218  50.424  1.00 49.53
ATOM    568  CD  LYS A  66      40.224 118.986  49.006  1.00 55.21
ATOM    569  CE  LYS A  66      39.259 118.128  48.182  1.00 58.11
ATOM    570  NZ  LYS A  66      39.898 117.586  46.915  1.00 55.82
ATOM    571  C   LYS A  66      43.142 119.936  52.175  1.00 46.76
ATOM    572  O   LYS A  66      43.278 121.152  52.078  1.00 47.88
ATOM    573  N   LYS A  67      43.849 119.208  53.031  1.00 48.17
ATOM    574  CA  LYS A  67      44.848 119.831  53.893  1.00 51.26
ATOM    575  CB  LYS A  67      45.185 118.911  55.066  1.00 55.00
ATOM    576  CG  LYS A  67      44.043 118.691  56.031  1.00 62.72
ATOM    577  CD  LYS A  67      44.366 117.552  56.989  1.00 69.44
ATOM    578  CE  LYS A  67      43.310 117.429  58.071  1.00 67.30
ATOM    579  NZ  LYS A  67      43.191 118.717  58.812  1.00 67.19
ATOM    580  C   LYS A  67      46.134 120.129  53.113  1.00 50.33
ATOM    581  O   LYS A  67      46.593 119.306  52.319  1.00 46.04
ATOM    582  N   ALA A  68      46.713 121.302  53.339  1.00 45.38
ATOM    583  CA  ALA A  68      47.956 121.669  52.677  1.00 49.55
ATOM    584  CB  ALA A  68      48.294 123.118  52.978  1.00 46.81
ATOM    585  C   ALA A  68      49.097 120.763  53.155  1.00 49.88
ATOM    586  O   ALA A  68      49.181 120.426  54.336  1.00 49.18
ATOM    587  N   LEU A  69      49.965 120.369  52.230  1.00 49.96
ATOM    588  CA  LEU A  69      51.108 119.523  52.557  1.00 54.04
ATOM    589  CB  LEU A  69      51.904 119.221  51.282  1.00 53.64
ATOM    590  CG  LEU A  69      53.107 118.277  51.306  1.00 58.21
ATOM    591  CD1 LEU A  69      52.716 116.931  51.868  1.00 55.47
ATOM    592  CD2 LEU A  69      53.644 118.117  49.898  1.00 51.91
ATOM    593  C   LEU A  69      51.960 120.306  53.561  1.00 57.76
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ATOM    594  O   LEU A  69      52.179 121.509  53.400  1.00 55.49
ATOM    595  N   THR A  70      52.429 119.630  54.601  1.00 58.71
ATOM    596  CA  THR A  70      53.229 120.291  55.629  1.00 64.07
ATOM    597  CB  THR A  70      52.775 119.859  57.039  1.00 67.76
ATOM    598  OG1 THR A  70      52.750 118.426  57.115  1.00 72.09
ATOM    599  CG2 THR A  70      51.377 120.407  57.341  1.00 68.63
ATOM    600  C   THR A  70      54.724 120.023  55.501  1.00 64.73
ATOM    601  O   THR A  70      55.150 119.081  54.819  1.00 63.34
ATOM    602  N   ALA A  71      55.514 120.859  56.172  1.00 63.70
ATOM    603  CA  ALA A  71      56.967 120.730  56.152  1.00 60.30
ATOM    604  CB  ALA A  71      57.597 121.829  57.019  1.00 64.56
ATOM    605  C   ALA A  71      57.384 119.350  56.667  1.00 56.74
ATOM    606  O   ALA A  71      58.464 118.864  56.360  1.00 54.57
ATOM    607  N   GLU A  72      56.506 118.714  57.432  1.00 54.05
ATOM    608  CA  GLU A  72      56.806 117.411  58.012  1.00 57.31
ATOM    609  CB  GLU A  72      55.992 117.229  59.287  1.00 59.27
ATOM    610  CG  GLU A  72      54.505 117.166  58.998  1.00 67.54
ATOM    611  CD  GLU A  72      53.678 116.780  60.200  1.00 72.63
ATOM    612  OE1 GLU A  72      53.731 117.509  61.214  1.00 76.61
ATOM    613  OE2 GLU A  72      52.970 115.749  60.125  1.00 73.63
ATOM    614  C   GLU A  72      56.525 116.222  57.106  1.00 58.59
ATOM    615  O   GLU A  72      57.115 115.154  57.279  1.00 57.44
ATOM    616  N   ALA A  73      55.619 116.405  56.151  1.00 60.95
ATOM    617  CA  ALA A  73      55.210 115.316  55.267  1.00 63.38
ATOM    618  CB  ALA A  73      53.731 115.485  54.922  1.00 66.87
ATOM    619  C   ALA A  73      56.018 115.115  53.989  1.00 61.92
ATOM    620  O   ALA A  73      55.940 114.056  53.358  1.00 60.64
ATOM    621  N   GLU A  74      56.804 116.115  53.620  1.00 59.38
ATOM    622  CA  GLU A  74      57.611 116.066  52.408  1.00 60.75
ATOM    623  CB  GLU A  74      58.469 117.336  52.338  1.00 63.39
ATOM    624  CG  GLU A  74      59.471 117.363  51.190  1.00 64.89
ATOM    625  CD  GLU A  74      60.861 116.934  51.595  1.00 62.26
ATOM    626  OE1 GLU A  74      61.661 116.563  50.705  1.00 58.67
ATOM    627  OE2 GLU A  74      61.164 116.974  52.805  1.00 70.10
ATOM    628  C   GLU A  74      58.505 114.822  52.190  1.00 61.12
ATOM    629  O   GLU A  74      59.326 114.466  53.036  1.00 64.64
ATOM    630  N   ASN A  75      58.339 114.188  51.030  1.00 54.12
ATOM    631  CA  ASN A  75      59.113 113.011  50.630  1.00 43.28
ATOM    632  CB  ASN A  75      58.228 111.760  50.737  1.00 44.54
ATOM    633  CG  ASN A  75      58.936 110.490  50.293  1.00 48.81
ATOM    634  OD1 ASN A  75      60.053 110.207  50.716  1.00 49.81
ATOM    635  ND2 ASN A  75      58.271 109.709  49.444  1.00 53.84
ATOM    636  C   ASN A  75      59.583 113.229  49.181  1.00 38.90
ATOM    637  O   ASN A  75      59.704 112.289  48.399  1.00 38.62
ATOM    638  N   TRP A  76      59.852 114.484  48.830  1.00 35.90
ATOM    639  CA  TRP A  76      60.290 114.854  47.476  1.00 35.54
ATOM    640  CB  TRP A  76      60.391 116.383  47.345  1.00 36.76
ATOM    641  CG  TRP A  76      59.076 117.134  47.444  1.00 36.86
ATOM    642  CD2 TRP A  76      58.020 117.143  46.475  1.00 38.71
ATOM    643  CE2 TRP A  76      57.014 118.012  46.960  1.00 43.96
ATOM    644  CE3 TRP A  76      57.825 116.499  45.245  1.00 35.25
ATOM    645  CD1 TRP A  76      58.676 117.969  48.447  1.00 45.59
ATOM    646  NE1 TRP A  76      57.439 118.499  48.167  1.00 43.31
ATOM    647  CZ2 TRP A  76      55.823 118.257  46.253  1.00 41.11
ATOM    648  CZ3 TRP A  76      56.630 116.740  44.539  1.00 35.48
ATOM    649  CH2 TRP A  76      55.651 117.612  45.050  1.00 37.81
ATOM    650  C   TRP A  76      61.639 114.271  47.072  1.00 40.93
ATOM    651  O   TRP A  76      62.549 114.190  47.893  1.00 41.05
ATOM    652  N   ALA A  77      61.770 113.860  45.813  1.00 35.88
ATOM    653  CA  ALA A  77      63.052 113.363  45.341  1.00 37.63
ATOM    654  CB  ALA A  77      62.922 112.791  43.957  1.00 36.19
ATOM    655  C   ALA A  77      63.980 114.576  45.306  1.00 38.46
ATOM    656  O   ALA A  77      63.521 115.732  45.376  1.00 36.42
ATOM    657  N   ASP A  78      65.281 114.323  45.195  1.00 38.10
ATOM    658  CA  ASP A  78      66.252 115.417  45.132  1.00 43.51
ATOM    659  CB  ASP A  78      67.672 114.882  44.931  1.00 44.48
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Replaced by ASU 36360

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ATOM    660  CG  ASP A  78      68.174 114.049  46.101  1.00 52.48
ATOM    661  OD1 ASP A  78      67.671 114.212  47.237  1.00 48.52
ATOM    662  OD2 ASP A  78      69.102 113.238  45.877  1.00 58.53
ATOM    663  C   ASP A  78      65.946 116.350  43.955  1.00 43.63
ATOM    664  O   ASP A  78      65.606 115.890  42.866  1.00 43.80
ATOM    665  N   ASN A  79      66.092 117.653  44.183  1.00 43.77
ATOM    666  CA  ASN A  79      65.865 118.663  43.148  1.00 44.98
ATOM    667  CB  ASN A  79      66.797 118.407  41.961  1.00 45.58
ATOM    668  CG  ASN A  79      68.253 118.260  42.384  1.00 53.44
ATOM    669  OD1 ASN A  79      68.953 117.359  41.920  1.00 53.96
ATOM    670  ND2 ASN A  79      68.713 119.150  43.262  1.00 47.76
ATOM    671  C   ASN A  79      64.420 118.731  42.650  1.00 44.24
ATOM    672  O   ASN A  79      64.160 119.240  41.558  1.00 45.48
ATOM    673  N   GLU A  80      63.483 118.214  43.442  1.00 43.08
ATOM    674  CA  GLU A  80      62.068 118.260  43.082  1.00 39.56
ATOM    675  CB  GLU A  80      61.511 116.850  42.869  1.00 38.95
ATOM    676  CG  GLU A  80      62.210 116.049  41.772  1.00 35.83
ATOM    677  CD  GLU A  80      62.050 116.633  40.357  1.00 44.84
ATOM    678  OE1 GLU A  80      61.351 117.658  40.184  1.00 39.67
ATOM    679  OE2 GLU A  80      62.626 116.047  39.414  1.00 39.65
ATOM    680  C   GLU A  80      61.341 118.936  44.234  1.00 43.22
ATOM    681  O   GLU A  80      61.796 118.872  45.381  1.00 42.12
ATOM    682  N   PRO A  81      60.195 119.584  43.961  1.00 37.93
ATOM    683  CD  PRO A  81      59.444 120.225  45.053  1.00 40.47
ATOM    684  CA  PRO A  81      59.500 119.752  42.676  1.00 41.63
ATOM    685  CB  PRO A  81      58.107 120.206  43.100  1.00 36.07
ATOM    686  CG  PRO A  81      58.383 121.023  44.299  1.00 43.28
ATOM    687  C   PRO A  81      60.212 120.785  41.817  1.00 41.51
ATOM    688  O   PRO A  81      60.537 121.866  42.301  1.00 47.84
ATOM    689  N   ASN A  82      60.455 120.465  40.550  1.00 37.76
ATOM    690  CA  ASN A  82      61.156 121.401  39.678  1.00 40.48
ATOM    691  CB  ASN A  82      62.368 120.710  39.019  1.00 40.44
ATOM    692  CG  ASN A  82      61.976 119.688  37.963  1.00 42.69
ATOM    693  OD1 ASN A  82      60.791 119.509  37.652  1.00 38.15
ATOM    694  ND2 ASN A  82      62.977 119.018  37.393  1.00 39.67
ATOM    695  C   ASN A  82      60.285 122.075  38.611  1.00 42.91
ATOM    696  O   ASN A  82      60.790 122.875  37.822  1.00 41.31
ATOM    697  N   ASN A  83      58.983 121.773  38.603  1.00 39.63
ATOM    698  CA  ASN A  83      58.045 122.345  37.625  1.00 35.56
ATOM    699  CB  ASN A  83      57.550 123.722  38.118  1.00 35.77
ATOM    700  CG  ASN A  83      56.291 124.193  37.393  1.00 39.70
ATOM    701  OD1 ASN A  83      56.035 125.404  37.254  1.00 44.03
ATOM    702  ND2 ASN A  83      55.501 123.250  36.935  1.00 33.43
ATOM    703  C   ASN A  83      58.723 122.504  36.258  1.00 40.13
ATOM    704  O   ASN A  83      58.597 123.547  35.609  1.00 37.94
ATOM    705  N   LYS A  84      59.412 121.470  35.789  1.00 39.01
ATOM    706  CA  LYS A  84      60.137 121.623  34.533  1.00 40.53
ATOM    707  CB  LYS A  84      61.131 120.472  34.326  1.00 43.55
ATOM    708  CG  LYS A  84      62.365 120.953  33.536  1.00 46.91
ATOM    709  CD  LYS A  84      63.431 119.886  33.332  1.00 59.82
ATOM    710  CE  LYS A  84      64.665 120.490  32.656  1.00 58.65
ATOM    711  NZ  LYS A  84      65.670 119.462  32.264  1.00 68.58
ATOM    712  C   LYS A  84      59.376 121.869  33.234  1.00 40.53
ATOM    713  O   LYS A  84      59.820 122.667  32.421  1.00 43.20
ATOM    714  N   ARG A  85      58.245 121.208  33.023  1.00 35.80
ATOM    715  CA  ARG A  85      57.475 121.399  31.795  1.00 40.64
ATOM    716  CB  ARG A  85      56.677 120.116  31.486  1.00 33.17
ATOM    717  CG  ARG A  85      55.947 120.117  30.134  1.00 40.60
ATOM    718  CD  ARG A  85      54.985 118.927  29.966  1.00 44.09
ATOM    719  NE  ARG A  85      55.681 117.655  30.097  1.00 43.80
ATOM    720  CZ  ARG A  85      56.005 116.839  29.098  1.00 42.33
ATOM    721  NH1 ARG A  85      55.694 117.118  27.839  1.00 33.59
ATOM    722  NH2 ARG A  85      56.690 115.737  29.367  1.00 41.72
ATOM    723  C   ARG A  85      56.499 122.580  31.953  1.00 41.12
ATOM    724  O   ARG A  85      55.825 122.977  31.000  1.00 44.07
ATOM    725  N   ASN A  86      56.469 123.147  33.155  1.00 36.43
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ATOM	726	CA	ASN	A	86	55.522	124.194	33.539	1.00	40.68
ATOM	727	CB	ASN	A	86	55.199	125.193	32.392	1.00	42.19
ATOM	728	CG	ASN	A	86	56.351	126.151	32.092	1.00	46.53
ATOM	729	OD1	ASN	A	86	57.035	126.626	33.002	1.00	50.40
ATOM	730	ND2	ASN	A	86	56.558	126.446	30.810	1.00	46.20
ATOM	731	C	ASN	A	86	54.264	123.376	33.866	1.00	36.39
ATOM	732	O	ASN	A	86	54.055	122.289	33.303	1.00	35.21
ATOM	733	N	ASN	A	87	53.454	123.894	34.781	1.00	33.12
ATOM	734	CA	ASN	A	87	52.223	123.256	35.214	1.00	34.75
ATOM	735	CB	ASN	A	87	51.194	123.309	34.094	1.00	35.85
ATOM	736	CG	ASN	A	87	51.032	124.714	33.536	1.00	40.81
ATOM	737	OD1	ASN	A	87	51.331	124.963	32.378	1.00	44.33
ATOM	738	ND2	ASN	A	87	50.589	125.633	34.375	1.00	37.10
ATOM	739	C	ASN	A	87	52.361	121.806	35.713	1.00	33.80
ATOM	740	O	ASN	A	87	51.463	120.991	35.474	1.00	31.12
ATOM	741	N	GLU	A	88	53.472	121.479	36.378	1.00	38.13
ATOM	742	CA	GLU	A	88	53.633	120.118	36.929	1.00	32.51
ATOM	743	CB	GLU	A	88	55.119	119.747	37.071	1.00	34.03
ATOM	744	CG	GLU	A	88	55.881	119.877	35.741	1.00	31.26
ATOM	745	CD	GLU	A	88	57.247	119.206	35.753	1.00	36.16
ATOM	746	OE1	GLU	A	88	57.842	119.093	36.849	1.00	28.51
ATOM	747	OE2	GLU	A	88	57.717	118.813	34.663	1.00	35.35
ATOM	748	C	GLU	A	88	52.954	120.246	38.283	1.00	31.06
ATOM	749	O	GLU	A	88	53.585	120.503	39.307	1.00	35.07
ATOM	750	N	ASP	A	89	51.642	120.052	38.265	1.00	28.52
ATOM	751	CA	ASP	A	89	50.821	120.229	39.446	1.00	32.76
ATOM	752	CB	ASP	A	89	49.571	121.058	39.086	1.00	36.03
ATOM	753	CG	ASP	A	89	49.914	122.441	38.497	1.00	48.30
ATOM	754	OD1	ASP	A	89	51.030	122.951	38.729	1.00	44.65
ATOM	755	OD2	ASP	A	89	49.047	123.030	37.816	1.00	51.43
ATOM	756	C	ASP	A	89	50.358	118.961	40.139	1.00	29.65
ATOM	757	O	ASP	A	89	49.600	119.042	41.095	1.00	31.47
ATOM	758	N	CYS	A	90	50.816	117.803	39.664	1.00	28.26
ATOM	759	CA	CYS	A	90	50.388	116.526	40.231	1.00	29.27
ATOM	760	C	CYS	A	90	51.592	115.747	40.704	1.00	31.47
ATOM	761	O	CYS	A	90	52.680	115.925	40.183	1.00	31.73
ATOM	762	CB	CYS	A	90	49.616	115.723	39.166	1.00	30.23
ATOM	763	SG	CYS	A	90	47.930	116.422	38.870	1.00	33.20
ATOM	764	N	VAL	A	91	51.385	114.859	41.666	1.00	29.23
ATOM	765	CA	VAL	A	91	52.512	114.114	42.213	1.00	29.06
ATOM	766	CB	VAL	A	91	52.542	114.226	43.736	1.00	30.17
ATOM	767	CG1	VAL	A	91	53.777	113.483	44.296	1.00	29.74
ATOM	768	CG2	VAL	A	91	52.561	115.705	44.154	1.00	29.91
ATOM	769	C	VAL	A	91	52.495	112.627	41.866	1.00	25.19
ATOM	770	O	VAL	A	91	51.462	111.973	41.981	1.00	26.74
ATOM	771	N	GLU	A	92	53.647	112.108	41.440	1.00	29.84
ATOM	772	CA	GLU	A	92	53.805	110.676	41.146	1.00	27.89
ATOM	773	CB	GLU	A	92	54.432	110.449	39.772	1.00	26.56
ATOM	774	CG	GLU	A	92	55.911	110.841	39.662	1.00	29.92
ATOM	775	CD	GLU	A	92	56.524	110.516	38.292	1.00	30.34
ATOM	776	OE1	GLU	A	92	56.013	109.618	37.593	1.00	29.46
ATOM	777	OE2	GLU	A	92	57.538	111.163	37.915	1.00	33.01
ATOM	778	C	GLU	A	92	54.761	110.145	42.217	1.00	28.50
ATOM	779	O	GLU	A	92	55.504	110.923	42.825	1.00	28.89
ATOM	780	N	ILE	A	93	54.734	108.841	42.462	1.00	27.59
ATOM	781	CA	ILE	A	93	55.654	108.249	43.441	1.00	25.40
ATOM	782	CB	ILE	A	93	54.903	107.583	44.638	1.00	29.80
ATOM	783	CG2	ILE	A	93	53.867	106.550	44.139	1.00	27.16
ATOM	784	CG1	ILE	A	93	55.934	106.966	45.612	1.00	29.63
ATOM	785	CD1	ILE	A	93	55.313	106.491	46.935	1.00	32.71
ATOM	786	C	ILE	A	93	56.528	107.249	42.668	1.00	27.79
ATOM	787	O	ILE	A	93	56.035	106.449	41.872	1.00	25.68
ATOM	788	N	TYR	A	94	57.839	107.379	42.862	1.00	31.44
ATOM	789	CA	TYR	A	94	58.839	106.560	42.185	1.00	32.24
ATOM	790	CB	TYR	A	94	60.208	107.226	42.329	1.00	31.57
ATOM	791	CG	TYR	A	94	60.402	108.485	41.503	1.00	33.41

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ATOM    792  CD1 TYR A  94      59.901 108.573  40.209  1.00 33.46
ATOM    793  CE1 TYR A  94      60.180 109.678  39.398  1.00 33.45
ATOM    794  CD2 TYR A  94      61.183 109.545  41.981  1.00 33.76
ATOM    795  CE2 TYR A  94      61.463 110.653  41.175  1.00 34.71
ATOM    796  CZ  TYR A  94      60.962 110.705  39.891  1.00 30.45
ATOM    797  OH  TYR A  94      61.280 111.769  39.077  1.00 37.30
ATOM    798  C   TYR A  94      58.946 105.119  42.677  1.00 34.35
ATOM    799  O   TYR A  94      59.968 104.716  43.233  1.00 30.25
ATOM    800  N   ILE A  95      57.907 104.335  42.464  1.00 29.80
ATOM    801  CA  ILE A  95      57.952 102.942  42.888  1.00 32.64
ATOM    802  CB  ILE A  95      56.649 102.243  42.582  1.00 25.36
ATOM    803  CG2 ILE A  95      56.750 100.760  42.952  1.00 30.78
ATOM    804  CG1 ILE A  95      55.521 102.916  43.381  1.00 28.40
ATOM    805  CD1 ILE A  95      55.771 102.945  44.880  1.00 27.14
ATOM    806  C   ILE A  95      59.063 102.192  42.146  1.00 31.46
ATOM    807  O   ILE A  95      59.076 102.150  40.926  1.00 28.67
ATOM    808  N   LYS A  96      59.980 101.609  42.904  1.00 34.41
ATOM    809  CA  LYS A  96      61.084 100.849  42.323  1.00 31.73
ATOM    810  CB  LYS A  96      60.552  99.573  41.680  1.00 29.76
ATOM    811  CG  LYS A  96      60.303  98.447  42.697  1.00 31.10
ATOM    812  CD  LYS A  96      59.664  97.238  42.008  1.00 31.77
ATOM    813  CE  LYS A  96      59.527  96.032  42.958  1.00 35.78
ATOM    814  NZ  LYS A  96      58.697  96.320  44.157  1.00 32.20
ATOM    815  C   LYS A  96      61.933 101.629  41.334  1.00 30.85
ATOM    816  O   LYS A  96      62.517 101.056  40.405  1.00 35.06
ATOM    817  N   SER A  97      62.015 102.939  41.535  1.00 29.33
ATOM    818  CA  SER A  97      62.874 103.755  40.677  1.00 33.33
ATOM    819  CB  SER A  97      62.822 105.216  41.090  1.00 34.76
ATOM    820  OG  SER A  97      64.009 105.877  40.664  1.00 33.97
ATOM    821  C   SER A  97      64.300 103.260  40.961  1.00 37.46
ATOM    822  O   SER A  97      64.657 103.038  42.115  1.00 32.36
ATOM    823  N   PRO A  98      65.128 103.102  39.924  1.00 39.25
ATOM    824  CD  PRO A  98      64.877 103.153  38.473  1.00 39.51
ATOM    825  CA  PRO A  98      66.485 102.631  40.217  1.00 44.35
ATOM    826  CB  PRO A  98      67.053 102.304  38.830  1.00 43.55
ATOM    827  CG  PRO A  98      66.297 103.285  37.906  1.00 43.96
ATOM    828  C   PRO A  98      67.337 103.655  40.962  1.00 45.58
ATOM    829  O   PRO A  98      68.356 103.289  41.546  1.00 49.33
ATOM    830  N   SER A  99      66.905 104.918  40.977  1.00 40.06
ATOM    831  CA  SER A  99      67.680 105.989  41.612  1.00 38.45
ATOM    832  CB  SER A  99      68.074 107.031  40.556  1.00 48.45
ATOM    833  OG  SER A  99      66.932 107.526  39.879  1.00 43.47
ATOM    834  C   SER A  99      67.065 106.724  42.780  1.00 41.69
ATOM    835  O   SER A  99      67.783 107.298  43.600  1.00 37.48
ATOM    836  N   ALA A 100      65.739 106.737  42.867  1.00 36.41
ATOM    837  CA  ALA A 100      65.096 107.448  43.955  1.00 34.15
ATOM    838  CB  ALA A 100      64.753 108.864  43.510  1.00 40.26
ATOM    839  C   ALA A 100      63.835 106.697  44.348  1.00 39.16
ATOM    840  O   ALA A 100      62.737 107.253  44.340  1.00 33.63
ATOM    841  N   PRO A 101      63.984 105.417  44.704  1.00 36.37
ATOM    842  CD  PRO A 101      65.252 104.676  44.897  1.00 39.83
ATOM    843  CA  PRO A 101      62.831 104.612  45.091  1.00 33.24
ATOM    844  CB  PRO A 101      63.459 103.266  45.502  1.00 39.62
ATOM    845  CG  PRO A 101      64.872 103.641  45.912  1.00 37.66
ATOM    846  C   PRO A 101      61.955 105.222  46.181  1.00 31.93
ATOM    847  O   PRO A 101      62.430 105.708  47.202  1.00 31.70
ATOM    848  N   GLY A 102      60.650 105.215  45.920  1.00 35.95
ATOM    849  CA  GLY A 102      59.694 105.732  46.873  1.00 32.36
ATOM    850  C   GLY A 102      59.574 107.236  47.016  1.00 36.31
ATOM    851  O   GLY A 102      58.713 107.705  47.780  1.00 31.49
ATOM    852  N   LYS A 103      60.404 107.995  46.298  1.00 32.51
ATOM    853  CA  LYS A 103      60.363 109.455  46.412  1.00 33.46
ATOM    854  CB  LYS A 103      61.738 110.043  46.065  1.00 31.97
ATOM    855  CG  LYS A 103      62.850 109.667  47.072  1.00 34.18
ATOM    856  CD  LYS A 103      62.495 110.153  48.485  1.00 38.53
ATOM    857  CE  LYS A 103      63.579 109.786  49.523  1.00 50.91
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ATOM	858	NZ	LYS	A	103	64.881	110.435	49.208	1.00	50.77
ATOM	859	C	LYS	A	103	59.276	110.089	45.526	1.00	30.65
ATOM	860	O	LYS	A	103	58.814	109.465	44.583	1.00	27.17
ATOM	861	N	TRP	A	104	58.898	111.331	45.836	1.00	31.31
ATOM	862	CA	TRP	A	104	57.869	112.045	45.072	1.00	30.29
ATOM	863	CB	TRP	A	104	57.027	112.936	45.986	1.00	27.87
ATOM	864	CG	TRP	A	104	56.275	112.289	47.089	1.00	34.45
ATOM	865	CD2	TRP	A	104	55.724	112.957	48.231	1.00	35.16
ATOM	866	CE2	TRP	A	104	55.028	111.992	48.984	1.00	34.93
ATOM	867	CE3	TRP	A	104	55.750	114.283	48.683	1.00	42.57
ATOM	868	CD1	TRP	A	104	55.907	110.987	47.190	1.00	36.90
ATOM	869	NE1	TRP	A	104	55.154	110.798	48.330	1.00	38.75
ATOM	870	CZ2	TRP	A	104	54.361	112.302	50.170	1.00	38.63
ATOM	871	CZ3	TRP	A	104	55.085	114.599	49.868	1.00	46.26
ATOM	872	CH2	TRP	A	104	54.399	113.606	50.597	1.00	40.08
ATOM	873	C	TRP	A	104	58.448	112.961	44.001	1.00	32.81
ATOM	874	O	TRP	A	104	59.556	113.493	44.146	1.00	30.10
ATOM	875	N	ASN	A	105	57.680	113.168	42.933	1.00	30.37
ATOM	876	CA	ASN	A	105	58.095	114.076	41.864	1.00	29.31
ATOM	877	CB	ASN	A	105	58.792	113.332	40.720	1.00	27.85
ATOM	878	CG	ASN	A	105	59.033	114.231	39.496	1.00	35.49
ATOM	879	OD1	ASN	A	105	59.544	115.351	39.620	1.00	28.03
ATOM	880	ND2	ASN	A	105	58.664	113.741	38.319	1.00	33.02
ATOM	881	C	ASN	A	105	56.846	114.760	41.306	1.00	28.61
ATOM	882	O	ASN	A	105	55.791	114.125	41.212	1.00	33.21
ATOM	883	N	ASP	A	106	56.982	116.032	40.924	1.00	32.83
ATOM	884	CA	ASP	A	106	55.862	116.764	40.341	1.00	32.46
ATOM	885	CB	ASP	A	106	55.933	118.267	40.697	1.00	33.77
ATOM	886	CG	ASP	A	106	57.216	118.951	40.220	1.00	41.86
ATOM	887	OD1	ASP	A	106	58.276	118.300	40.049	1.00	42.81
ATOM	888	OD2	ASP	A	106	57.153	120.180	40.029	1.00	33.54
ATOM	889	C	ASP	A	106	55.900	116.531	38.837	1.00	32.05
ATOM	890	O	ASP	A	106	56.973	116.524	38.229	1.00	28.83
ATOM	891	N	GLU	A	107	54.724	116.290	38.253	1.00	25.62
ATOM	892	CA	GLU	A	107	54.575	116.017	36.821	1.00	26.59
ATOM	893	CB	GLU	A	107	54.392	114.508	36.550	1.00	27.81
ATOM	894	CG	GLU	A	107	55.701	113.703	36.616	1.00	33.76
ATOM	895	CD	GLU	A	107	56.414	113.662	35.279	1.00	33.43
ATOM	896	OE1	GLU	A	107	56.342	112.611	34.613	1.00	34.59
ATOM	897	OE2	GLU	A	107	57.022	114.684	34.890	1.00	37.13
ATOM	898	C	GLU	A	107	53.327	116.714	36.287	1.00	30.53
ATOM	899	O	GLU	A	107	52.396	116.978	37.042	1.00	27.84
ATOM	900	N	HIS	A	108	53.311	116.980	34.990	1.00	26.64
ATOM	901	CA	HIS	A	108	52.152	117.615	34.385	1.00	28.07
ATOM	902	CB	HIS	A	108	52.408	117.891	32.903	1.00	29.39
ATOM	903	CG	HIS	A	108	51.277	118.614	32.236	1.00	31.01
ATOM	904	CD2	HIS	A	108	50.037	118.195	31.886	1.00	28.37
ATOM	905	ND1	HIS	A	108	51.346	119.946	31.888	1.00	36.55
ATOM	906	CE1	HIS	A	108	50.197	120.320	31.349	1.00	27.74
ATOM	907	NE2	HIS	A	108	49.384	119.276	31.336	1.00	33.79
ATOM	908	C	HIS	A	108	51.012	116.622	34.539	1.00	29.78
ATOM	909	O	HIS	A	108	51.198	115.431	34.301	1.00	27.12
ATOM	910	N	CYS	A	109	49.830	117.103	34.930	1.00	27.07
ATOM	911	CA	CYS	A	109	48.706	116.221	35.161	1.00	28.18
ATOM	912	C	CYS	A	109	48.165	115.440	33.982	1.00	27.06
ATOM	913	O	CYS	A	109	47.387	114.503	34.170	1.00	28.20
ATOM	914	CB	CYS	A	109	47.569	116.996	35.839	1.00	36.82
ATOM	915	SG	CYS	A	109	48.074	117.830	37.396	1.00	52.27
ATOM	916	N	LEU	A	110	48.568	115.795	32.770	1.00	25.24
ATOM	917	CA	LEU	A	110	48.084	115.067	31.612	1.00	26.14
ATOM	918	CB	LEU	A	110	47.676	116.034	30.491	1.00	30.66
ATOM	919	CG	LEU	A	110	46.509	116.948	30.915	1.00	30.88
ATOM	920	CD1	LEU	A	110	46.150	117.899	29.759	1.00	34.93
ATOM	921	CD2	LEU	A	110	45.286	116.077	31.294	1.00	32.31
ATOM	922	C	LEU	A	110	49.062	114.008	31.093	1.00	27.66
ATOM	923	O	LEU	A	110	48.892	113.505	29.991	1.00	30.00

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ATOM	924	N	LYS	A	111	50.103	113.704	31.875	1.00	30.56
ATOM	925	CA	LYS	A	111	51.009	112.593	31.513	1.00	29.84
ATOM	926	CB	LYS	A	111	52.300	112.618	32.347	1.00	27.73
ATOM	927	CG	LYS	A	111	53.328	113.690	32.010	1.00	38.44
ATOM	928	CD	LYS	A	111	54.275	113.275	30.899	1.00	48.65
ATOM	929	CE	LYS	A	111	55.233	112.124	31.288	1.00	42.37
ATOM	930	NZ	LYS	A	111	56.499	112.501	32.004	1.00	39.15
ATOM	931	C	LYS	A	111	50.177	111.372	31.960	1.00	30.57
ATOM	932	O	LYS	A	111	49.352	111.479	32.882	1.00	30.97
ATOM	933	N	LYS	A	112	50.367	110.217	31.338	1.00	27.44
ATOM	934	CA	LYS	A	112	49.593	109.037	31.722	1.00	28.40
ATOM	935	CB	LYS	A	112	49.213	108.234	30.476	1.00	28.98
ATOM	936	CG	LYS	A	112	48.184	108.937	29.585	1.00	33.83
ATOM	937	CD	LYS	A	112	48.098	108.340	28.184	1.00	40.24
ATOM	938	CE	LYS	A	112	47.447	106.995	28.176	1.00	44.59
ATOM	939	NZ	LYS	A	112	47.290	106.504	26.774	1.00	45.47
ATOM	940	C	LYS	A	112	50.450	108.169	32.656	1.00	30.84
ATOM	941	O	LYS	A	112	51.597	107.858	32.328	1.00	30.85
ATOM	942	N	LYS	A	113	49.895	107.803	33.808	1.00	28.83
ATOM	943	CA	LYS	A	113	50.609	106.958	34.782	1.00	28.38
ATOM	944	CB	LYS	A	113	51.261	107.816	35.865	1.00	25.03
ATOM	945	CG	LYS	A	113	52.229	108.889	35.318	1.00	24.93
ATOM	946	CD	LYS	A	113	52.879	109.654	36.453	1.00	27.67
ATOM	947	CE	LYS	A	113	53.859	110.744	35.950	1.00	29.15
ATOM	948	NZ	LYS	A	113	54.973	110.122	35.165	1.00	30.16
ATOM	949	C	LYS	A	113	49.601	106.006	35.424	1.00	29.08
ATOM	950	O	LYS	A	113	48.403	106.108	35.178	1.00	27.73
ATOM	951	N	HIS	A	114	50.077	105.095	36.267	1.00	29.15
ATOM	952	CA	HIS	A	114	49.180	104.133	36.893	1.00	29.12
ATOM	953	CB	HIS	A	114	49.975	102.863	37.248	1.00	27.61
ATOM	954	CG	HIS	A	114	50.501	102.169	36.037	1.00	28.78
ATOM	955	CD2	HIS	A	114	51.592	102.426	35.268	1.00	32.02
ATOM	956	ND1	HIS	A	114	49.810	101.162	35.400	1.00	32.53
ATOM	957	CE1	HIS	A	114	50.449	100.830	34.290	1.00	35.90
ATOM	958	NE2	HIS	A	114	51.532	101.583	34.185	1.00	34.52
ATOM	959	C	HIS	A	114	48.484	104.673	38.119	1.00	26.67
ATOM	960	O	HIS	A	114	49.089	105.339	38.942	1.00	27.00
ATOM	961	N	ALA	A	115	47.194	104.374	38.238	1.00	28.68
ATOM	962	CA	ALA	A	115	46.443	104.835	39.394	1.00	29.32
ATOM	963	CB	ALA	A	115	44.938	104.679	39.130	1.00	32.52
ATOM	964	C	ALA	A	115	46.859	103.975	40.591	1.00	30.37
ATOM	965	O	ALA	A	115	46.939	102.747	40.472	1.00	30.16
ATOM	966	N	LEU	A	116	47.146	104.612	41.724	1.00	29.46
ATOM	967	CA	LEU	A	116	47.490	103.850	42.933	1.00	29.17
ATOM	968	CB	LEU	A	116	48.835	104.289	43.470	1.00	28.73
ATOM	969	CG	LEU	A	116	49.278	103.550	44.726	1.00	30.29
ATOM	970	CD1	LEU	A	116	49.093	102.023	44.577	1.00	31.28
ATOM	971	CD2	LEU	A	116	50.735	103.903	44.938	1.00	32.34
ATOM	972	C	LEU	A	116	46.383	104.145	43.952	1.00	28.20
ATOM	973	O	LEU	A	116	46.327	105.241	44.523	1.00	28.63
ATOM	974	N	CYS	A	117	45.516	103.151	44.171	1.00	33.73
ATOM	975	CA	CYS	A	117	44.348	103.300	45.048	1.00	34.15
ATOM	976	C	CYS	A	117	44.348	102.545	46.366	1.00	34.41
ATOM	977	O	CYS	A	117	45.165	101.653	46.603	1.00	33.00
ATOM	978	CB	CYS	A	117	43.105	102.839	44.303	1.00	32.85
ATOM	979	SG	CYS	A	117	43.013	103.233	42.520	1.00	43.48
ATOM	980	N	TYR	A	118	43.397	102.907	47.222	1.00	33.00
ATOM	981	CA	TYR	A	118	43.223	102.216	48.498	1.00	35.90
ATOM	982	CB	TYR	A	118	43.911	102.970	49.653	1.00	34.70
ATOM	983	CG	TYR	A	118	43.125	104.173	50.159	1.00	38.95
ATOM	984	CD1	TYR	A	118	43.268	105.431	49.566	1.00	35.28
ATOM	985	CE1	TYR	A	118	42.495	106.523	49.988	1.00	41.23
ATOM	986	CD2	TYR	A	118	42.193	104.037	51.186	1.00	37.49
ATOM	987	CE2	TYR	A	118	41.412	105.122	51.611	1.00	35.56
ATOM	988	CZ	TYR	A	118	41.567	106.354	51.011	1.00	42.81
ATOM	989	OH	TYR	A	118	40.792	107.418	51.417	1.00	46.83

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ATOM	990	C	TYR	A	118	41.740	102.072	48.817	1.00 40.99
ATOM	991	O	TYR	A	118	40.866	102.722	48.204	1.00 37.15
ATOM	992	N	THR	A	119	41.474	101.227	49.805	1.00 39.53
ATOM	993	CA	THR	A	119	40.129	100.995	50.286	1.00 43.14
ATOM	994	CB	THR	A	119	39.415	99.941	49.411	1.00 50.10
ATOM	995	OG1	THR	A	119	38.003	100.040	49.603	1.00 62.62
ATOM	996	CG2	THR	A	119	39.873	98.534	49.769	1.00 47.19
ATOM	997	C	THR	A	119	40.297	100.477	51.718	1.00 42.64
ATOM	998	O	THR	A	119	41.322	99.871	52.042	1.00 39.12
ATOM	999	N	ALA	A	120	39.338	100.752	52.593	1.00 37.90
ATOM	1000	CA	ALA	A	120	39.444	100.227	53.955	1.00 37.68
ATOM	1001	CB	ALA	A	120	38.255	100.668	54.794	1.00 41.45
ATOM	1002	C	ALA	A	120	39.455	98.707	53.835	1.00 38.38
ATOM	1003	O	ALA	A	120	38.765	98.138	52.979	1.00 36.25
ATOM	1004	N	SER	A	121	40.246	98.046	54.672	1.00 35.46
ATOM	1005	CA	SER	A	121	40.299	96.587	54.655	1.00 34.28
ATOM	1006	CB	SER	A	121	41.677	96.100	55.124	1.00 32.38
ATOM	1007	OG	SER	A	121	42.737	96.714	54.403	1.00 36.41
ATOM	1008	C	SER	A	121	39.207	96.037	55.608	1.00 33.66
ATOM	1009	O	SER	A	121	38.703	94.926	55.432	1.00 32.35
ATOM	1010	N	CYS	A	122	38.847	96.822	56.616	1.00 32.78
ATOM	1011	CA	CYS	A	122	37.831	96.388	57.577	1.00 34.59
ATOM	1012	C	CYS	A	122	36.434	96.304	56.997	1.00 37.50
ATOM	1013	O	CYS	A	122	35.991	97.215	56.307	1.00 35.88
ATOM	1014	CB	CYS	A	122	37.814	97.324	58.773	1.00 34.83
ATOM	1015	SG	CYS	A	122	39.269	97.126	59.854	1.00 40.37
ATOM	1016	N	GLN	A	123	35.740	95.215	57.305	1.00 37.85
ATOM	1017	CA	GLN	A	123	34.386	94.987	56.819	1.00 40.29
ATOM	1018	CB	GLN	A	123	34.353	93.762	55.900	1.00 42.35
ATOM	1019	CG	GLN	A	123	35.366	93.797	54.784	1.00 51.13
ATOM	1020	CD	GLN	A	123	35.087	94.900	53.783	1.00 53.88
ATOM	1021	OE1	GLN	A	123	36.010	95.446	53.172	1.00 56.22
ATOM	1022	NE2	GLN	A	123	33.810	95.234	53.604	1.00 51.24
ATOM	1023	C	GLN	A	123	33.445	94.729	57.987	1.00 39.66
ATOM	1024	O	GLN	A	123	33.873	94.438	59.098	1.00 39.98
ATOM	1025	N	ASP	A	124	32.152	94.810	57.717	1.00 39.07
ATOM	1026	CA	ASP	A	124	31.131	94.577	58.730	1.00 40.18
ATOM	1027	CB	ASP	A	124	29.756	94.521	58.041	1.00 46.47
ATOM	1028	CG	ASP	A	124	28.637	94.071	58.968	1.00 48.57
ATOM	1029	OD1	ASP	A	124	27.889	93.139	58.576	1.00 45.07
ATOM	1030	OD2	ASP	A	124	28.496	94.652	60.063	1.00 41.85
ATOM	1031	C	ASP	A	124	31.373	93.290	59.521	1.00 39.07
ATOM	1032	O	ASP	A	124	31.292	93.279	60.753	1.00 40.66
ATOM	1033	N	MET	A	125	31.694	92.216	58.806	1.00 42.44
ATOM	1034	CA	MET	A	125	31.894	90.900	59.419	1.00 41.65
ATOM	1035	CB	MET	A	125	31.445	89.816	58.433	1.00 43.91
ATOM	1036	CG	MET	A	125	29.950	89.797	58.181	1.00 57.13
ATOM	1037	SD	MET	A	125	29.070	89.256	59.651	1.00 67.04
ATOM	1038	CE	MET	A	125	28.191	87.814	58.977	1.00 67.53
ATOM	1039	C	MET	A	125	33.305	90.574	59.891	1.00 40.52
ATOM	1040	O	MET	A	125	33.555	89.457	60.345	1.00 38.49
ATOM	1041	N	SER	A	126	34.226	91.522	59.780	1.00 38.66
ATOM	1042	CA	SER	A	126	35.603	91.265	60.198	1.00 38.09
ATOM	1043	CB	SER	A	126	36.496	92.475	59.881	1.00 40.89
ATOM	1044	OG	SER	A	126	36.445	92.811	58.503	1.00 37.43
ATOM	1045	C	SER	A	126	35.678	90.958	61.696	1.00 36.79
ATOM	1046	O	SER	A	126	34.831	91.388	62.483	1.00 37.84
ATOM	1047	N	CYS	A	127	36.707	90.212	62.077	1.00 30.69
ATOM	1048	CA	CYS	A	127	36.926	89.825	63.458	1.00 31.14
ATOM	1049	C	CYS	A	127	35.758	89.033	64.066	1.00 33.58
ATOM	1050	O	CYS	A	127	35.518	89.074	65.278	1.00 34.89
ATOM	1051	CB	CYS	A	127	37.258	91.058	64.285	1.00 37.43
ATOM	1052	SG	CYS	A	127	38.615	92.060	63.542	1.00 40.57
ATOM	1053	N	SER	A	128	35.045	88.307	63.204	1.00 38.91
ATOM	1054	CA	SER	A	128	33.931	87.452	63.612	1.00 36.28
ATOM	1055	CB	SER	A	128	34.445	86.285	64.459	1.00 34.58

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ATOM	1056	OG	SER	A	128	35.563	85.656	63.859	1.00	35.43
ATOM	1057	C	SER	A	128	32.895	88.184	64.435	1.00	41.79
ATOM	1058	O	SER	A	128	32.122	87.540	65.149	1.00	41.08
ATOM	1059	N	LYS	A	129	32.876	89.512	64.328	1.00	37.35
ATOM	1060	CA	LYS	A	129	31.973	90.352	65.113	1.00	41.35
ATOM	1061	CB	LYS	A	129	30.505	90.107	64.717	1.00	47.63
ATOM	1062	CG	LYS	A	129	30.038	90.841	63.436	1.00	52.73
ATOM	1063	CD	LYS	A	129	29.033	91.957	63.797	1.00	60.59
ATOM	1064	CE	LYS	A	129	28.542	92.754	62.584	1.00	57.36
ATOM	1065	NZ	LYS	A	129	27.781	91.878	61.650	1.00	59.66
ATOM	1066	C	LYS	A	129	32.192	90.083	66.614	1.00	43.22
ATOM	1067	O	LYS	A	129	31.280	90.248	67.426	1.00	40.33
ATOM	1068	N	GLN	A	130	33.421	89.683	66.960	1.00	38.74
ATOM	1069	CA	GLN	A	130	33.828	89.377	68.338	1.00	37.15
ATOM	1070	CB	GLN	A	130	34.014	87.856	68.497	1.00	38.84
ATOM	1071	CG	GLN	A	130	32.667	87.117	68.324	1.00	42.40
ATOM	1072	CD	GLN	A	130	32.757	85.603	68.238	1.00	41.29
ATOM	1073	OE1	GLN	A	130	33.836	85.018	68.074	1.00	41.32
ATOM	1074	NE2	GLN	A	130	31.596	84.954	68.323	1.00	38.36
ATOM	1075	C	GLN	A	130	35.119	90.117	68.698	1.00	36.57
ATOM	1076	O	GLN	A	130	35.889	89.689	69.566	1.00	32.52
ATOM	1077	N	GLY	A	131	35.331	91.241	68.018	1.00	35.75
ATOM	1078	CA	GLY	A	131	36.498	92.076	68.251	1.00	34.63
ATOM	1079	C	GLY	A	131	36.408	93.352	67.414	1.00	33.74
ATOM	1080	O	GLY	A	131	35.560	93.454	66.549	1.00	37.26
ATOM	1081	N	GLU	A	132	37.278	94.322	67.684	1.00	31.95
ATOM	1082	CA	GLU	A	132	37.295	95.580	66.950	1.00	38.08
ATOM	1083	CB	GLU	A	132	37.675	96.727	67.905	1.00	41.87
ATOM	1084	CG	GLU	A	132	37.906	98.071	67.232	1.00	51.64
ATOM	1085	CD	GLU	A	132	38.469	99.125	68.186	1.00	65.69
ATOM	1086	OE1	GLU	A	132	38.572	100.307	67.773	1.00	69.27
ATOM	1087	OE2	GLU	A	132	38.817	98.779	69.346	1.00	68.72
ATOM	1088	C	GLU	A	132	38.336	95.464	65.838	1.00	37.92
ATOM	1089	O	GLU	A	132	39.484	95.075	66.084	1.00	35.84
ATOM	1090	N	CYS	A	133	37.924	95.794	64.620	1.00	36.03
ATOM	1091	CA	CYS	A	133	38.808	95.748	63.463	1.00	35.13
ATOM	1092	C	CYS	A	133	39.615	97.051	63.362	1.00	37.63
ATOM	1093	O	CYS	A	133	39.045	98.140	63.458	1.00	34.89
ATOM	1094	CB	CYS	A	133	37.976	95.572	62.191	1.00	39.75
ATOM	1095	SG	CYS	A	133	38.966	95.269	60.686	1.00	42.39
ATOM	1096	N	LEU	A	134	40.925	96.934	63.156	1.00	36.07
ATOM	1097	CA	LEU	A	134	41.827	98.091	63.045	1.00	35.67
ATOM	1098	CB	LEU	A	134	42.833	98.075	64.192	1.00	39.79
ATOM	1099	CG	LEU	A	134	42.182	98.128	65.575	1.00	47.59
ATOM	1100	CD1	LEU	A	134	43.209	97.866	66.659	1.00	51.87
ATOM	1101	CD2	LEU	A	134	41.527	99.491	65.753	1.00	51.00
ATOM	1102	C	LEU	A	134	42.575	98.031	61.711	1.00	36.20
ATOM	1103	O	LEU	A	134	43.147	96.995	61.360	1.00	37.21
ATOM	1104	N	GLU	A	135	42.572	99.136	60.966	1.00	35.20
ATOM	1105	CA	GLU	A	135	43.233	99.169	59.658	1.00	36.53
ATOM	1106	CB	GLU	A	135	42.858	100.456	58.902	1.00	37.96
ATOM	1107	CG	GLU	A	135	41.361	100.645	58.589	1.00	41.11
ATOM	1108	CD	GLU	A	135	40.850	99.750	57.463	1.00	39.69
ATOM	1109	OE1	GLU	A	135	41.658	99.299	56.624	1.00	40.65
ATOM	1110	OE2	GLU	A	135	39.626	99.509	57.398	1.00	39.53
ATOM	1111	C	GLU	A	135	44.751	99.123	59.810	1.00	35.79
ATOM	1112	O	GLU	A	135	45.301	99.733	60.722	1.00	34.22
ATOM	1113	N	THR	A	136	45.429	98.380	58.944	1.00	33.11
ATOM	1114	CA	THR	A	136	46.894	98.360	58.996	1.00	36.42
ATOM	1115	CB	THR	A	136	47.475	96.968	59.373	1.00	34.78
ATOM	1116	OG1	THR	A	136	47.228	96.045	58.304	1.00	36.53
ATOM	1117	CG2	THR	A	136	46.837	96.441	60.659	1.00	43.32
ATOM	1118	C	THR	A	136	47.383	98.690	57.585	1.00	36.84
ATOM	1119	O	THR	A	136	46.581	98.868	56.665	1.00	34.14
ATOM	1120	N	ILE	A	137	48.699	98.793	57.432	1.00	37.77
ATOM	1121	CA	ILE	A	137	49.290	99.050	56.138	1.00	36.13

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ATOM	1122	CB	ILE	A	137	50.769	99.465	56.272	1.00	36.77
ATOM	1123	CG2	ILE	A	137	51.369	99.655	54.894	1.00	37.50
ATOM	1124	CG1	ILE	A	137	50.871	100.765	57.068	1.00	42.05
ATOM	1125	CD1	ILE	A	137	52.303	101.185	57.409	1.00	52.26
ATOM	1126	C	ILE	A	137	49.206	97.739	55.376	1.00	37.47
ATOM	1127	O	ILE	A	137	49.993	96.828	55.616	1.00	39.77
ATOM	1128	N	GLY	A	138	48.219	97.630	54.496	1.00	36.98
ATOM	1129	CA	GLY	A	138	48.059	96.427	53.707	1.00	36.49
ATOM	1130	C	GLY	A	138	46.922	95.504	54.105	1.00	40.02
ATOM	1131	O	GLY	A	138	46.464	94.701	53.295	1.00	42.92
ATOM	1132	N	ASN	A	139	46.437	95.612	55.336	1.00	37.74
ATOM	1133	CA	ASN	A	139	45.368	94.703	55.767	1.00	36.88
ATOM	1134	CB	ASN	A	139	45.998	93.329	56.043	1.00	41.48
ATOM	1135	CG	ASN	A	139	44.971	92.246	56.308	1.00	50.95
ATOM	1136	OD1	ASN	A	139	44.156	91.917	55.451	1.00	58.13
ATOM	1137	ND2	ASN	A	139	45.011	91.687	57.504	1.00	62.11
ATOM	1138	C	ASN	A	139	44.680	95.257	57.025	1.00	32.28
ATOM	1139	O	ASN	A	139	44.431	96.456	57.118	1.00	33.35
ATOM	1140	N	TYR	A	140	44.363	94.381	57.983	1.00	30.38
ATOM	1141	CA	TYR	A	140	43.744	94.816	59.229	1.00	31.14
ATOM	1142	CB	TYR	A	140	42.203	94.890	59.111	1.00	34.59
ATOM	1143	CG	TYR	A	140	41.488	93.555	58.937	1.00	34.91
ATOM	1144	CD1	TYR	A	140	41.107	93.114	57.675	1.00	41.63
ATOM	1145	CE1	TYR	A	140	40.416	91.916	57.499	1.00	43.28
ATOM	1146	CD2	TYR	A	140	41.161	92.750	60.043	1.00	33.21
ATOM	1147	CE2	TYR	A	140	40.462	91.532	59.873	1.00	34.25
ATOM	1148	CZ	TYR	A	140	40.095	91.130	58.595	1.00	43.50
ATOM	1149	OH	TYR	A	140	39.392	89.959	58.385	1.00	45.12
ATOM	1150	C	TYR	A	140	44.111	93.811	60.313	1.00	35.19
ATOM	1151	O	TYR	A	140	44.569	92.705	60.024	1.00	36.19
ATOM	1152	N	THR	A	141	43.908	94.204	61.557	1.00	34.58
ATOM	1153	CA	THR	A	141	44.177	93.318	62.672	1.00	39.25
ATOM	1154	CB	THR	A	141	45.432	93.766	63.458	1.00	44.18
ATOM	1155	OG1	THR	A	141	45.813	92.720	64.355	1.00	52.90
ATOM	1156	CG2	THR	A	141	45.152	95.039	64.254	1.00	41.36
ATOM	1157	C	THR	A	141	42.947	93.387	63.561	1.00	38.73
ATOM	1158	O	THR	A	141	42.113	94.299	63.410	1.00	38.19
ATOM	1159	N	CYS	A	142	42.834	92.443	64.488	1.00	36.07
ATOM	1160	CA	CYS	A	142	41.686	92.410	65.393	1.00	37.16
ATOM	1161	C	CYS	A	142	42.045	92.564	66.880	1.00	38.22
ATOM	1162	O	CYS	A	142	43.026	91.983	67.349	1.00	35.12
ATOM	1163	CB	CYS	A	142	40.934	91.093	65.209	1.00	35.64
ATOM	1164	SG	CYS	A	142	40.251	90.816	63.543	1.00	35.15
ATOM	1165	N	SER	A	143	41.252	93.360	67.599	1.00	35.91
ATOM	1166	CA	SER	A	143	41.405	93.554	69.046	1.00	36.26
ATOM	1167	CB	SER	A	143	41.330	95.032	69.436	1.00	41.94
ATOM	1168	OG	SER	A	143	42.516	95.705	69.075	1.00	51.11
ATOM	1169	C	SER	A	143	40.186	92.846	69.598	1.00	34.35
ATOM	1170	O	SER	A	143	39.082	93.400	69.587	1.00	36.19
ATOM	1171	N	CYS	A	144	40.373	91.619	70.071	1.00	38.04
ATOM	1172	CA	CYS	A	144	39.235	90.852	70.536	1.00	38.55
ATOM	1173	C	CYS	A	144	38.527	91.370	71.771	1.00	38.33
ATOM	1174	O	CYS	A	144	39.136	91.999	72.630	1.00	37.07
ATOM	1175	CB	CYS	A	144	39.638	89.397	70.761	1.00	40.34
ATOM	1176	SG	CYS	A	144	40.340	88.620	69.266	1.00	45.51
ATOM	1177	N	TYR	A	145	37.221	91.108	71.834	1.00	40.01
ATOM	1178	CA	TYR	A	145	36.438	91.467	73.006	1.00	40.07
ATOM	1179	CB	TYR	A	145	34.939	91.355	72.709	1.00	37.91
ATOM	1180	CG	TYR	A	145	34.450	92.285	71.604	1.00	44.46
ATOM	1181	CD1	TYR	A	145	35.033	93.543	71.400	1.00	47.71
ATOM	1182	CE1	TYR	A	145	34.554	94.411	70.407	1.00	45.59
ATOM	1183	CD2	TYR	A	145	33.380	91.921	70.784	1.00	50.06
ATOM	1184	CE2	TYR	A	145	32.897	92.780	69.792	1.00	51.83
ATOM	1185	CZ	TYR	A	145	33.489	94.026	69.612	1.00	52.55
ATOM	1186	OH	TYR	A	145	32.991	94.880	68.643	1.00	51.50
ATOM	1187	C	TYR	A	145	36.914	90.427	74.041	1.00	39.68

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ATOM	1188	O	TYR	A	145	37.432	89.379	73.671	1.00 40.21
ATOM	1189	N	PRO	A	146	36.744	90.700	75.344	1.00 44.13
ATOM	1190	CD	PRO	A	146	35.980	91.848	75.864	1.00 44.12
ATOM	1191	CA	PRO	A	146	37.167	89.823	76.449	1.00 44.94
ATOM	1192	CB	PRO	A	146	36.453	90.429	77.658	1.00 46.66
ATOM	1193	CG	PRO	A	146	36.433	91.889	77.311	1.00 48.01
ATOM	1194	C	PRO	A	146	37.032	88.287	76.410	1.00 45.80
ATOM	1195	O	PRO	A	146	37.975	87.585	76.780	1.00 50.32
ATOM	1196	N	GLY	A	147	35.896	87.752	75.981	1.00 39.81
ATOM	1197	CA	GLY	A	147	35.765	86.296	75.983	1.00 38.32
ATOM	1198	C	GLY	A	147	36.181	85.559	74.711	1.00 36.80
ATOM	1199	O	GLY	A	147	35.867	84.377	74.547	1.00 31.83
ATOM	1200	N	PHE	A	148	36.914	86.234	73.826	1.00 32.51
ATOM	1201	CA	PHE	A	148	37.323	85.631	72.552	1.00 35.89
ATOM	1202	CB	PHE	A	148	36.523	86.287	71.424	1.00 32.06
ATOM	1203	CG	PHE	A	148	35.047	86.242	71.648	1.00 34.77
ATOM	1204	CD1	PHE	A	148	34.308	85.142	71.246	1.00 33.57
ATOM	1205	CD2	PHE	A	148	34.397	87.296	72.286	1.00 37.28
ATOM	1206	CE1	PHE	A	148	32.932	85.086	71.472	1.00 42.62
ATOM	1207	CE2	PHE	A	148	33.031	87.251	72.517	1.00 39.43
ATOM	1208	CZ	PHE	A	148	32.293	86.145	72.109	1.00 38.23
ATOM	1209	C	PHE	A	148	38.810	85.763	72.268	1.00 35.19
ATOM	1210	O	PHE	A	148	39.472	86.649	72.811	1.00 32.10
ATOM	1211	N	TYR	A	149	39.343	84.870	71.432	1.00 31.25
ATOM	1212	CA	TYR	A	149	40.755	84.932	71.078	1.00 31.67
ATOM	1213	CB	TYR	A	149	41.627	84.153	72.081	1.00 26.85
ATOM	1214	CG	TYR	A	149	41.476	82.647	72.008	1.00 32.74
ATOM	1215	CD1	TYR	A	149	40.381	81.997	72.600	1.00 31.49
ATOM	1216	CE1	TYR	A	149	40.242	80.603	72.523	1.00 36.33
ATOM	1217	CD2	TYR	A	149	42.419	81.873	71.346	1.00 29.35
ATOM	1218	CE2	TYR	A	149	42.286	80.483	71.263	1.00 32.62
ATOM	1219	CZ	TYR	A	149	41.203	79.864	71.847	1.00 33.29
ATOM	1220	OH	TYR	A	149	41.066	78.509	71.725	1.00 33.47
ATOM	1221	C	TYR	A	149	40.993	84.420	69.666	1.00 31.85
ATOM	1222	O	TYR	A	149	40.075	83.904	69.033	1.00 31.43
ATOM	1223	N	GLY	A	150	42.217	84.581	69.167	1.00 31.44
ATOM	1224	CA	GLY	A	150	42.511	84.130	67.809	1.00 35.35
ATOM	1225	C	GLY	A	150	42.679	85.300	66.841	1.00 35.06
ATOM	1226	O	GLY	A	150	42.192	86.398	67.104	1.00 35.45
ATOM	1227	N	PRO	A	151	43.348	85.093	65.692	1.00 39.17
ATOM	1228	CD	PRO	A	151	43.821	83.783	65.208	1.00 38.93
ATOM	1229	CA	PRO	A	151	43.577	86.153	64.691	1.00 37.30
ATOM	1230	CB	PRO	A	151	44.345	85.426	63.584	1.00 43.76
ATOM	1231	CG	PRO	A	151	43.848	83.991	63.705	1.00 47.70
ATOM	1232	C	PRO	A	151	42.331	86.891	64.175	1.00 36.97
ATOM	1233	O	PRO	A	151	42.415	88.075	63.843	1.00 35.93
ATOM	1234	N	GLU	A	152	41.194	86.190	64.096	1.00 35.21
ATOM	1235	CA	GLU	A	152	39.920	86.784	63.674	1.00 33.10
ATOM	1236	CB	GLU	A	152	39.299	86.023	62.492	1.00 40.50
ATOM	1237	CG	GLU	A	152	39.921	86.271	61.132	1.00 50.11
ATOM	1238	CD	GLU	A	152	39.672	87.677	60.606	1.00 55.26
ATOM	1239	OE1	GLU	A	152	38.506	88.154	60.600	1.00 53.57
ATOM	1240	OE2	GLU	A	152	40.661	88.305	60.184	1.00 54.32
ATOM	1241	C	GLU	A	152	38.930	86.726	64.841	1.00 35.23
ATOM	1242	O	GLU	A	152	37.716	86.783	64.620	1.00 35.09
ATOM	1243	N	CYS	A	153	39.447	86.589	66.070	1.00 32.44
ATOM	1244	CA	CYS	A	153	38.617	86.512	67.285	1.00 32.87
ATOM	1245	C	CYS	A	153	37.560	85.429	67.122	1.00 32.66
ATOM	1246	O	CYS	A	153	36.446	85.544	67.652	1.00 31.04
ATOM	1247	CB	CYS	A	153	37.925	87.854	67.544	1.00 36.15
ATOM	1248	SG	CYS	A	153	39.142	89.210	67.664	1.00 35.86
ATOM	1249	N	GLU	A	154	37.939	84.380	66.395	1.00 33.72
ATOM	1250	CA	GLU	A	154	37.030	83.284	66.069	1.00 36.77
ATOM	1251	CB	GLU	A	154	37.463	82.656	64.727	1.00 40.14
ATOM	1252	CG	GLU	A	154	38.821	81.900	64.772	1.00 43.13
ATOM	1253	CD	GLU	A	154	40.047	82.725	64.329	1.00 48.59

ATOM	1254	OE1	GLU	A	154	40.350	83.789	64.918	1.00	38.31
ATOM	1255	OE2	GLU	A	154	40.728	82.287	63.377	1.00	50.10
ATOM	1256	C	GLU	A	154	36.906	82.186	67.126	1.00	39.76
ATOM	1257	O	GLU	A	154	36.081	81.289	66.993	1.00	43.07
ATOM	1258	N	TYR	A	155	37.710	82.251	68.177	1.00	30.50
ATOM	1259	CA	TYR	A	155	37.662	81.214	69.209	1.00	31.76
ATOM	1260	CB	TYR	A	155	39.066	80.653	69.432	1.00	31.07
ATOM	1261	CG	TYR	A	155	39.641	80.001	68.213	1.00	33.40
ATOM	1262	CD1	TYR	A	155	39.200	78.749	67.801	1.00	41.13
ATOM	1263	CE1	TYR	A	155	39.711	78.152	66.655	1.00	43.52
ATOM	1264	CD2	TYR	A	155	40.612	80.646	67.448	1.00	41.60
ATOM	1265	CE2	TYR	A	155	41.127	80.063	66.303	1.00	43.83
ATOM	1266	CZ	TYR	A	155	40.666	78.816	65.913	1.00	42.80
ATOM	1267	OH	TYR	A	155	41.141	78.249	64.761	1.00	48.38
ATOM	1268	C	TYR	A	155	37.099	81.717	70.527	1.00	37.79
ATOM	1269	O	TYR	A	155	37.325	82.870	70.902	1.00	32.19
ATOM	1270	N	VAL	A	156	36.380	80.840	71.230	1.00	35.66
ATOM	1271	CA	VAL	A	156	35.782	81.188	72.517	1.00	35.42
ATOM	1272	CB	VAL	A	156	34.422	80.485	72.703	1.00	37.00
ATOM	1273	CG1	VAL	A	156	33.854	80.797	74.086	1.00	39.31
ATOM	1274	CG2	VAL	A	156	33.459	80.931	71.611	1.00	40.34
ATOM	1275	C	VAL	A	156	36.701	80.752	73.649	1.00	35.28
ATOM	1276	O	VAL	A	156	37.107	79.591	73.706	1.00	33.49
ATOM	1277	N	ARG	A	157	37.045	81.684	74.539	1.00	36.79
ATOM	1278	CA	ARG	A	157	37.900	81.354	75.679	1.00	35.37
ATOM	1279	CB	ARG	A	157	38.223	82.612	76.490	1.00	34.16
ATOM	1280	CG	ARG	A	157	39.221	83.563	75.824	1.00	37.93
ATOM	1281	CD	ARG	A	157	39.598	84.696	76.788	1.00	41.67
ATOM	1282	NE	ARG	A	157	40.526	85.645	76.177	1.00	41.52
ATOM	1283	CZ	ARG	A	157	41.849	85.612	76.311	1.00	40.09
ATOM	1284	NH1	ARG	A	157	42.431	84.674	77.046	1.00	32.35
ATOM	1285	NH2	ARG	A	157	42.590	86.531	75.703	1.00	44.36
ATOM	1286	C	ARG	A	157	37.159	80.353	76.579	1.00	35.85
ATOM	1287	O	ARG	A	157	35.971	80.507	76.836	1.00	37.50
ATOM	1288	N	GLU	A	158	37.864	79.340	77.067	1.00	45.55
ATOM	1289	CA	GLU	A	158	37.253	78.321	77.927	1.00	50.71
ATOM	1290	CB	GLU	A	158	38.215	77.150	78.079	1.00	58.53
ATOM	1291	CG	GLU	A	158	38.581	76.523	76.745	1.00	65.10
ATOM	1292	CD	GLU	A	158	39.478	75.329	76.903	1.00	74.31
ATOM	1293	OE1	GLU	A	158	40.385	75.412	77.764	1.00	75.99
ATOM	1294	OE2	GLU	A	158	39.286	74.322	76.170	1.00	79.39
ATOM	1295	C	GLU	A	158	36.859	78.835	79.306	1.00	54.96
ATOM	1296	O	GLU	A	158	37.465	79.772	79.823	1.00	56.18
ATOM	1297	N	TRP	B	201	54.029	92.842	83.585	1.00	33.11
ATOM	1298	CA	TRP	B	201	53.774	91.586	82.876	1.00	30.46
ATOM	1299	CB	TRP	B	201	54.828	91.373	81.795	1.00	31.83
ATOM	1300	CG	TRP	B	201	54.926	92.508	80.827	1.00	30.71
ATOM	1301	CD2	TRP	B	201	53.937	92.901	79.873	1.00	33.24
ATOM	1302	CE2	TRP	B	201	54.467	93.993	79.148	1.00	34.28
ATOM	1303	CE3	TRP	B	201	52.648	92.440	79.561	1.00	33.58
ATOM	1304	CD1	TRP	B	201	55.988	93.350	80.655	1.00	30.02
ATOM	1305	NE1	TRP	B	201	55.720	94.245	79.642	1.00	33.66
ATOM	1306	CZ2	TRP	B	201	53.755	94.629	78.129	1.00	35.98
ATOM	1307	CZ3	TRP	B	201	51.936	93.075	78.552	1.00	36.15
ATOM	1308	CH2	TRP	B	201	52.496	94.161	77.845	1.00	37.75
ATOM	1309	C	TRP	B	201	53.817	90.405	83.852	1.00	35.46
ATOM	1310	O	TRP	B	201	54.747	90.290	84.654	1.00	34.23
ATOM	1311	N	THR	B	202	52.803	89.545	83.797	1.00	32.33
ATOM	1312	CA	THR	B	202	52.756	88.379	84.676	1.00	31.59
ATOM	1313	CB	THR	B	202	51.398	88.284	85.389	1.00	36.60
ATOM	1314	OG1	THR	B	202	51.197	89.472	86.177	1.00	43.80
ATOM	1315	CG2	THR	B	202	51.356	87.050	86.301	1.00	37.97
ATOM	1316	C	THR	B	202	52.958	87.154	83.785	1.00	32.80
ATOM	1317	O	THR	B	202	52.330	87.043	82.741	1.00	32.38
ATOM	1318	N	TYR	B	203	53.814	86.235	84.204	1.00	29.68
ATOM	1319	CA	TYR	B	203	54.095	85.052	83.387	1.00	33.50

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ATOM   1320  CB  TYR B 203      55.585  84.809  83.400  1.00 31.26
ATOM   1321  CG  TYR B 203      56.335  85.979  82.823  1.00 37.09
ATOM   1322  CD1 TYR B 203      56.569  86.060  81.456  1.00 36.27
ATOM   1323  CE1 TYR B 203      57.267  87.136  80.898  1.00 44.96
ATOM   1324  CD2 TYR B 203      56.807  87.012  83.643  1.00 36.96
ATOM   1325  CE2 TYR B 203      57.513  88.111  83.095  1.00 39.43
ATOM   1326  CZ  TYR B 203      57.736  88.155  81.717  1.00 43.03
ATOM   1327  OH  TYR B 203      58.432  89.196  81.138  1.00 51.39
ATOM   1328  C   TYR B 203      53.346  83.796  83.829  1.00 38.12
ATOM   1329  O   TYR B 203      53.023  83.649  84.999  1.00 29.76
ATOM   1330  N   HIS B 204      53.074  82.893  82.884  1.00 32.92
ATOM   1331  CA  HIS B 204      52.344  81.654  83.182  1.00 31.54
ATOM   1332  CB  HIS B 204      50.879  81.814  82.775  1.00 32.01
ATOM   1333  CG  HIS B 204      50.267  83.100  83.221  1.00 32.46
ATOM   1334  CD2 HIS B 204      50.092  84.277  82.576  1.00 33.90
ATOM   1335  ND1 HIS B 204      49.707  83.257  84.468  1.00 29.18
ATOM   1336  CE1 HIS B 204      49.204  84.476  84.570  1.00 36.19
ATOM   1337  NE2 HIS B 204      49.424  85.115  83.436  1.00 33.29
ATOM   1338  C   HIS B 204      52.946  80.538  82.332  1.00 31.53
ATOM   1339  O   HIS B 204      53.628  80.811  81.345  1.00 31.18
ATOM   1340  N   TYR B 205      52.712  79.288  82.712  1.00 27.69
ATOM   1341  CA  TYR B 205      53.211  78.183  81.899  1.00 28.12
ATOM   1342  CB  TYR B 205      54.630  77.774  82.287  1.00 30.58
ATOM   1343  CG  TYR B 205      54.776  77.253  83.697  1.00 34.05
ATOM   1344  CD1 TYR B 205      54.790  78.126  84.785  1.00 35.77
ATOM   1345  CE1 TYR B 205      54.927  77.640  86.093  1.00 34.60
ATOM   1346  CD2 TYR B 205      54.901  75.886  83.942  1.00 32.23
ATOM   1347  CE2 TYR B 205      55.038  75.393  85.238  1.00 38.48
ATOM   1348  CZ  TYR B 205      55.051  76.282  86.306  1.00 42.00
ATOM   1349  OH  TYR B 205      55.210  75.803  87.585  1.00 41.03
ATOM   1350  C   TYR B 205      52.278  77.006  82.026  1.00 33.16
ATOM   1351  O   TYR B 205      51.525  76.916  83.000  1.00 30.30
ATOM   1352  N   SER B 206      52.317  76.108  81.040  1.00 30.89
ATOM   1353  CA  SER B 206      51.437  74.937  81.072  1.00 30.44
ATOM   1354  CB  SER B 206      51.092  74.491  79.638  1.00 29.10
ATOM   1355  OG  SER B 206      52.273  74.056  78.975  1.00 30.76
ATOM   1356  C   SER B 206      52.171  73.809  81.812  1.00 28.49
ATOM   1357  O   SER B 206      53.387  73.683  81.720  1.00 34.86
ATOM   1358  N   THR B 207      51.420  72.992  82.541  1.00 32.53
ATOM   1359  CA  THR B 207      52.005  71.883  83.281  1.00 35.60
ATOM   1360  CB  THR B 207      51.064  71.436  84.440  1.00 37.12
ATOM   1361  OG1 THR B 207      49.847  70.908  83.897  1.00 43.48
ATOM   1362  CG2 THR B 207      50.718  72.643  85.336  1.00 36.10
ATOM   1363  C   THR B 207      52.303  70.706  82.357  1.00 35.19
ATOM   1364  O   THR B 207      53.190  69.900  82.638  1.00 35.96
ATOM   1365  N   LYS B 208      51.578  70.618  81.244  1.00 35.77
ATOM   1366  CA  LYS B 208      51.814  69.545  80.274  1.00 34.98
ATOM   1367  CB  LYS B 208      50.483  68.929  79.827  1.00 36.50
ATOM   1368  CG  LYS B 208      49.626  68.351  80.962  1.00 47.29
ATOM   1369  CD  LYS B 208      48.290  69.111  81.052  1.00 60.37
ATOM   1370  CE  LYS B 208      47.382  68.605  82.186  1.00 66.61
ATOM   1371  NZ  LYS B 208      46.135  69.437  82.358  1.00 64.41
ATOM   1372  C   LYS B 208      52.557  70.099  79.052  1.00 38.30
ATOM   1373  O   LYS B 208      52.565  71.302  78.837  1.00 34.58
ATOM   1374  N   ALA B 209      53.176  69.219  78.262  1.00 33.82
ATOM   1375  CA  ALA B 209      53.917  69.638  77.064  1.00 34.23
ATOM   1376  CB  ALA B 209      55.235  68.884  76.989  1.00 29.88
ATOM   1377  C   ALA B 209      53.076  69.410  75.799  1.00 35.37
ATOM   1378  O   ALA B 209      52.380  68.393  75.672  1.00 29.83
ATOM   1379  N   TYR B 210      53.138  70.360  74.865  1.00 31.59
ATOM   1380  CA  TYR B 210      52.350  70.293  73.634  1.00 31.69
ATOM   1381  CB  TYR B 210      51.153  71.259  73.695  1.00 30.59
ATOM   1382  CG  TYR B 210      50.312  71.188  74.947  1.00 36.61
ATOM   1383  CD1 TYR B 210      49.546  70.060  75.231  1.00 30.79
ATOM   1384  CE1 TYR B 210      48.766  69.981  76.394  1.00 41.93
ATOM   1385  CD2 TYR B 210      50.280  72.254  75.853  1.00 35.06
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PDB ID: 2AS0 Chain: B

ATOM	1386	CE2	TYR	B	210	49.491	72.193	77.020	1.00	42.07
ATOM	1387	CZ	TYR	B	210	48.738	71.048	77.277	1.00	44.00
ATOM	1388	OH	TYR	B	210	47.934	70.971	78.392	1.00	41.16
ATOM	1389	C	TYR	B	210	53.210	70.751	72.468	1.00	32.46
ATOM	1390	O	TYR	B	210	54.326	71.236	72.663	1.00	29.75
ATOM	1391	N	SER	B	211	52.677	70.615	71.258	1.00	32.81
ATOM	1392	CA	SER	B	211	53.392	71.100	70.071	1.00	33.39
ATOM	1393	CB	SER	B	211	52.620	70.718	68.805	1.00	24.87
ATOM	1394	OG	SER	B	211	51.439	71.498	68.731	1.00	27.52
ATOM	1395	C	SER	B	211	53.432	72.639	70.195	1.00	29.13
ATOM	1396	O	SER	B	211	52.690	73.219	70.997	1.00	27.66
ATOM	1397	N	TRP	B	212	54.285	73.310	69.412	1.00	27.81
ATOM	1398	CA	TRP	B	212	54.353	74.774	69.465	1.00	26.76
ATOM	1399	CB	TRP	B	212	55.396	75.317	68.464	1.00	27.78
ATOM	1400	CG	TRP	B	212	55.644	76.798	68.553	1.00	28.08
ATOM	1401	CD2	TRP	B	212	54.903	77.829	67.893	1.00	28.66
ATOM	1402	CE2	TRP	B	212	55.486	79.066	68.262	1.00	27.96
ATOM	1403	CE3	TRP	B	212	53.802	77.828	67.026	1.00	26.85
ATOM	1404	CD1	TRP	B	212	56.616	77.428	69.276	1.00	26.40
ATOM	1405	NE1	TRP	B	212	56.527	78.789	69.107	1.00	33.03
ATOM	1406	CZ2	TRP	B	212	55.009	80.288	67.794	1.00	34.46
ATOM	1407	CZ3	TRP	B	212	53.318	79.056	66.560	1.00	30.05
ATOM	1408	CH2	TRP	B	212	53.924	80.264	66.945	1.00	33.86
ATOM	1409	C	TRP	B	212	52.998	75.403	69.161	1.00	27.43
ATOM	1410	O	TRP	B	212	52.569	76.346	69.825	1.00	25.44
ATOM	1411	N	ASN	B	213	52.310	74.888	68.148	1.00	29.78
ATOM	1412	CA	ASN	B	213	51.022	75.454	67.799	1.00	29.76
ATOM	1413	CB	ASN	B	213	50.505	74.842	66.476	1.00	31.17
ATOM	1414	CG	ASN	B	213	51.232	75.401	65.268	1.00	37.48
ATOM	1415	OD1	ASN	B	213	51.453	76.607	65.176	1.00	41.73
ATOM	1416	ND2	ASN	B	213	51.600	74.539	64.339	1.00	44.39
ATOM	1417	C	ASN	B	213	49.962	75.312	68.890	1.00	28.17
ATOM	1418	O	ASN	B	213	49.216	76.260	69.155	1.00	28.77
ATOM	1419	N	ILE	B	214	49.869	74.131	69.488	1.00	27.71
ATOM	1420	CA	ILE	B	214	48.890	73.898	70.554	1.00	28.05
ATOM	1421	CB	ILE	B	214	48.784	72.384	70.852	1.00	27.24
ATOM	1422	CG2	ILE	B	214	47.891	72.100	72.091	1.00	28.65
ATOM	1423	CG1	ILE	B	214	48.143	71.704	69.624	1.00	31.20
ATOM	1424	CD1	ILE	B	214	46.811	72.377	69.152	1.00	29.01
ATOM	1425	C	ILE	B	214	49.311	74.707	71.792	1.00	28.56
ATOM	1426	O	ILE	B	214	48.464	75.163	72.546	1.00	27.65
ATOM	1427	N	SER	B	215	50.620	74.903	71.979	1.00	27.44
ATOM	1428	CA	SER	B	215	51.076	75.725	73.119	1.00	29.46
ATOM	1429	CB	SER	B	215	52.593	75.669	73.263	1.00	28.70
ATOM	1430	OG	SER	B	215	53.037	74.366	73.593	1.00	30.30
ATOM	1431	C	SER	B	215	50.655	77.168	72.896	1.00	28.77
ATOM	1432	O	SER	B	215	50.249	77.857	73.834	1.00	28.99
ATOM	1433	N	ARG	B	216	50.778	77.661	71.667	1.00	28.31
ATOM	1434	CA	ARG	B	216	50.356	79.038	71.427	1.00	23.75
ATOM	1435	CB	ARG	B	216	50.725	79.525	70.015	1.00	31.13
ATOM	1436	CG	ARG	B	216	50.523	81.020	69.884	1.00	29.32
ATOM	1437	CD	ARG	B	216	51.001	81.635	68.567	1.00	32.83
ATOM	1438	NE	ARG	B	216	50.868	83.085	68.673	1.00	31.85
ATOM	1439	CZ	ARG	B	216	50.870	83.937	67.651	1.00	35.65
ATOM	1440	NH1	ARG	B	216	50.996	83.504	66.403	1.00	30.93
ATOM	1441	NH2	ARG	B	216	50.748	85.233	67.891	1.00	34.81
ATOM	1442	C	ARG	B	216	48.855	79.163	71.631	1.00	31.03
ATOM	1443	O	ARG	B	216	48.373	80.184	72.133	1.00	28.82
ATOM	1444	N	LYS	B	217	48.100	78.136	71.231	1.00	30.34
ATOM	1445	CA	LYS	B	217	46.650	78.179	71.405	1.00	30.67
ATOM	1446	CB	LYS	B	217	46.010	76.950	70.756	1.00	34.04
ATOM	1447	CG	LYS	B	217	44.500	76.955	70.775	1.00	34.78
ATOM	1448	CD	LYS	B	217	43.962	75.700	70.094	1.00	38.75
ATOM	1449	CE	LYS	B	217	42.453	75.562	70.285	1.00	45.51
ATOM	1450	NZ	LYS	B	217	41.726	76.616	69.562	1.00	45.14
ATOM	1451	C	LYS	B	217	46.329	78.197	72.904	1.00	31.55

PDB2PDB: 5NJ3 C:B

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ATOM   1452  O   LYS B 217      45.421  78.910  73.362  1.00 28.83
ATOM   1453  N   TYR B 218      47.069  77.393  73.653  1.00 27.48
ATOM   1454  CA  TYR B 218      46.891  77.334  75.106  1.00 31.18
ATOM   1455  CB  TYR B 218      47.932  76.393  75.705  1.00 32.25
ATOM   1456  CG  TYR B 218      48.008  76.432  77.221  1.00 35.78
ATOM   1457  CD1 TYR B 218      48.882  77.307  77.875  1.00 37.60
ATOM   1458  CE1 TYR B 218      48.922  77.386  79.265  1.00 37.02
ATOM   1459  CD2 TYR B 218      47.178  75.628  78.000  1.00 39.10
ATOM   1460  CE2 TYR B 218      47.209  75.695  79.399  1.00 41.66
ATOM   1461  CZ  TYR B 218      48.083  76.581  80.021  1.00 43.04
ATOM   1462  OH  TYR B 218      48.102  76.691  81.389  1.00 41.46
ATOM   1463  C   TYR B 218      47.076  78.747  75.685  1.00 30.70
ATOM   1464  O   TYR B 218      46.283  79.213  76.507  1.00 29.08
ATOM   1465  N   CYS B 219      48.126  79.437  75.245  1.00 32.19
ATOM   1466  CA  CYS B 219      48.376  80.778  75.756  1.00 28.36
ATOM   1467  C   CYS B 219      47.326  81.802  75.365  1.00 31.50
ATOM   1468  O   CYS B 219      46.937  82.640  76.197  1.00 27.61
ATOM   1469  CB  CYS B 219      49.733  81.294  75.278  1.00 32.76
ATOM   1470  SG  CYS B 219      51.223  80.473  75.904  1.00 32.46
ATOM   1471  N   GLN B 220      46.873  81.768  74.111  1.00 28.52
ATOM   1472  CA  GLN B 220      45.894  82.746  73.668  1.00 28.43
ATOM   1473  CB  GLN B 220      45.782  82.763  72.126  1.00 29.67
ATOM   1474  CG  GLN B 220      47.087  83.204  71.441  1.00 32.82
ATOM   1475  CD  GLN B 220      46.909  83.485  69.957  1.00 39.24
ATOM   1476  OE1 GLN B 220      45.879  83.158  69.371  1.00 41.70
ATOM   1477  NE2 GLN B 220      47.911  84.086  69.351  1.00 38.22
ATOM   1478  C   GLN B 220      44.537  82.479  74.284  1.00 31.56
ATOM   1479  O   GLN B 220      43.741  83.407  74.484  1.00 29.72
ATOM   1480  N   ASN B 221      44.275  81.210  74.592  1.00 28.92
ATOM   1481  CA  ASN B 221      42.989  80.827  75.178  1.00 31.11
ATOM   1482  CB  ASN B 221      42.822  79.303  75.101  1.00 31.76
ATOM   1483  CG  ASN B 221      41.455  78.832  75.586  1.00 40.24
ATOM   1484  OD1 ASN B 221      40.845  79.444  76.452  1.00 46.05
ATOM   1485  ND2 ASN B 221      40.980  77.729  75.029  1.00 46.44
ATOM   1486  C   ASN B 221      42.868  81.271  76.651  1.00 32.57
ATOM   1487  O   ASN B 221      41.895  81.913  77.041  1.00 32.91
ATOM   1488  N   ALA B 222      43.862  80.905  77.451  1.00 29.59
ATOM   1489  CA  ALA B 222      43.878  81.216  78.883  1.00 30.12
ATOM   1490  CB  ALA B 222      44.597  80.092  79.635  1.00 36.19
ATOM   1491  C   ALA B 222      44.506  82.567  79.251  1.00 33.82
ATOM   1492  O   ALA B 222      44.083  83.222  80.217  1.00 31.19
ATOM   1493  N   TYR B 223      45.468  83.002  78.449  1.00 31.23
ATOM   1494  CA  TYR B 223      46.191  84.239  78.715  1.00 29.19
ATOM   1495  CB  TYR B 223      47.588  83.867  79.168  1.00 29.91
ATOM   1496  CG  TYR B 223      47.552  82.865  80.313  1.00 32.24
ATOM   1497  CD1 TYR B 223      46.974  83.208  81.543  1.00 36.55
ATOM   1498  CE1 TYR B 223      46.887  82.285  82.587  1.00 34.57
ATOM   1499  CD2 TYR B 223      48.047  81.572  80.158  1.00 30.70
ATOM   1500  CE2 TYR B 223      47.962  80.633  81.205  1.00 31.48
ATOM   1501  CZ  TYR B 223      47.381  81.006  82.411  1.00 34.68
ATOM   1502  OH  TYR B 223      47.299  80.099  83.447  1.00 36.12
ATOM   1503  C   TYR B 223      46.217  85.171  77.513  1.00 34.52
ATOM   1504  O   TYR B 223      45.190  85.349  76.850  1.00 33.70
ATOM   1505  N   THR B 224      47.363  85.786  77.227  1.00 28.87
ATOM   1506  CA  THR B 224      47.401  86.688  76.082  1.00 27.37
ATOM   1507  CB  THR B 224      48.089  88.039  76.438  1.00 30.94
ATOM   1508  OG1 THR B 224      47.293  88.703  77.436  1.00 33.19
ATOM   1509  CG2 THR B 224      48.195  88.957  75.206  1.00 35.05
ATOM   1510  C   THR B 224      48.104  86.013  74.904  1.00 29.23
ATOM   1511  O   THR B 224      47.516  85.892  73.833  1.00 34.65
ATOM   1512  N   ASP B 225      49.347  85.579  75.101  1.00 31.36
ATOM   1513  CA  ASP B 225      50.094  84.914  74.036  1.00 32.14
ATOM   1514  CB  ASP B 225      50.465  85.927  72.942  1.00 30.37
ATOM   1515  CG  ASP B 225      50.461  85.327  71.530  1.00 42.22
ATOM   1516  OD1 ASP B 225      50.755  84.128  71.331  1.00 33.99
ATOM   1517  OD2 ASP B 225      50.166  86.085  70.593  1.00 49.94
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ATOM	1518	C	ASP	B	225	51.382	84.333	74.597	1.00	31.52
ATOM	1519	O	ASP	B	225	51.679	84.449	75.791	1.00	30.29
ATOM	1520	N	LEU	B	226	52.140	83.684	73.722	1.00	29.64
ATOM	1521	CA	LEU	B	226	53.445	83.147	74.085	1.00	28.74
ATOM	1522	CB	LEU	B	226	54.068	82.380	72.907	1.00	30.23
ATOM	1523	CG	LEU	B	226	53.611	80.948	72.632	1.00	32.17
ATOM	1524	CD1	LEU	B	226	54.127	80.467	71.251	1.00	30.58
ATOM	1525	CD2	LEU	B	226	54.171	80.050	73.732	1.00	31.79
ATOM	1526	C	LEU	B	226	54.318	84.372	74.367	1.00	32.51
ATOM	1527	O	LEU	B	226	54.137	85.440	73.768	1.00	31.82
ATOM	1528	N	VAL	B	227	55.276	84.226	75.261	1.00	31.79
ATOM	1529	CA	VAL	B	227	56.165	85.343	75.570	1.00	33.76
ATOM	1530	CB	VAL	B	227	57.053	85.015	76.778	1.00	33.03
ATOM	1531	CG1	VAL	B	227	56.176	84.704	77.999	1.00	30.65
ATOM	1532	CG2	VAL	B	227	57.942	83.816	76.446	1.00	32.62
ATOM	1533	C	VAL	B	227	57.107	85.706	74.420	1.00	34.82
ATOM	1534	O	VAL	B	227	57.543	84.842	73.656	1.00	35.38
ATOM	1535	N	ALA	B	228	57.404	86.994	74.318	1.00	33.88
ATOM	1536	CA	ALA	B	228	58.353	87.531	73.356	1.00	41.89
ATOM	1537	CB	ALA	B	228	57.742	88.673	72.588	1.00	37.08
ATOM	1538	C	ALA	B	228	59.460	88.062	74.265	1.00	47.08
ATOM	1539	O	ALA	B	228	59.306	89.118	74.875	1.00	61.12
ATOM	1540	N	ILE	B	229	60.553	87.329	74.384	1.00	50.41
ATOM	1541	CA	ILE	B	229	61.654	87.751	75.246	1.00	53.08
ATOM	1542	CB	ILE	B	229	62.759	86.693	75.239	1.00	53.74
ATOM	1543	CG2	ILE	B	229	63.817	87.055	76.248	1.00	55.43
ATOM	1544	CG1	ILE	B	229	62.156	85.315	75.546	1.00	55.94
ATOM	1545	CD1	ILE	B	229	61.439	85.228	76.881	1.00	49.71
ATOM	1546	C	ILE	B	229	62.229	89.100	74.792	1.00	55.03
ATOM	1547	O	ILE	B	229	62.825	89.193	73.727	1.00	56.37
ATOM	1548	N	GLN	B	230	62.060	90.126	75.626	1.00	53.36
ATOM	1549	CA	GLN	B	230	62.496	91.491	75.329	1.00	57.62
ATOM	1550	CB	GLN	B	230	61.498	92.476	75.942	1.00	63.86
ATOM	1551	CG	GLN	B	230	60.150	92.493	75.250	1.00	71.09
ATOM	1552	CD	GLN	B	230	59.098	93.255	76.035	1.00	76.58
ATOM	1553	OE1	GLN	B	230	58.189	93.850	75.453	1.00	84.32
ATOM	1554	NE2	GLN	B	230	59.204	93.229	77.360	1.00	73.58
ATOM	1555	C	GLN	B	230	63.912	91.928	75.720	1.00	56.20
ATOM	1556	O	GLN	B	230	64.488	92.806	75.076	1.00	57.05
ATOM	1557	N	ASN	B	231	64.465	91.355	76.780	1.00	51.22
ATOM	1558	CA	ASN	B	231	65.812	91.722	77.197	1.00	46.14
ATOM	1559	CB	ASN	B	231	65.806	93.088	77.903	1.00	45.41
ATOM	1560	CG	ASN	B	231	64.795	93.169	79.032	1.00	47.01
ATOM	1561	OD1	ASN	B	231	64.846	92.392	79.981	1.00	47.40
ATOM	1562	ND2	ASN	B	231	63.875	94.125	78.937	1.00	44.85
ATOM	1563	C	ASN	B	231	66.388	90.638	78.092	1.00	39.80
ATOM	1564	O	ASN	B	231	65.702	89.675	78.430	1.00	36.19
ATOM	1565	N	LYS	B	232	67.656	90.779	78.458	1.00	37.54
ATOM	1566	CA	LYS	B	232	68.312	89.782	79.296	1.00	37.97
ATOM	1567	CB	LYS	B	232	69.824	90.023	79.319	1.00	47.59
ATOM	1568	CG	LYS	B	232	70.509	89.684	78.006	1.00	56.35
ATOM	1569	CD	LYS	B	232	71.937	90.214	77.941	1.00	63.25
ATOM	1570	CE	LYS	B	232	72.549	89.920	76.573	1.00	65.80
ATOM	1571	NZ	LYS	B	232	73.941	90.446	76.447	1.00	70.22
ATOM	1572	C	LYS	B	232	67.779	89.737	80.726	1.00	33.72
ATOM	1573	O	LYS	B	232	67.826	88.696	81.380	1.00	36.97
ATOM	1574	N	ASN	B	233	67.295	90.865	81.220	1.00	34.66
ATOM	1575	CA	ASN	B	233	66.755	90.918	82.577	1.00	35.09
ATOM	1576	CB	ASN	B	233	66.364	92.351	82.904	1.00	34.91
ATOM	1577	CG	ASN	B	233	67.506	93.311	82.680	1.00	43.28
ATOM	1578	OD1	ASN	B	233	68.381	93.457	83.532	1.00	41.45
ATOM	1579	ND2	ASN	B	233	67.524	93.945	81.506	1.00	42.80
ATOM	1580	C	ASN	B	233	65.532	89.996	82.658	1.00	36.71
ATOM	1581	O	ASN	B	233	65.335	89.303	83.656	1.00	34.54
ATOM	1582	N	GLU	B	234	64.719	89.992	81.602	1.00	35.03
ATOM	1583	CA	GLU	B	234	63.544	89.109	81.562	1.00	35.62

PDB entry 3GSG

ATOM	1584	CB	GLU	B	234	62.694	89.378	80.329	1.00	37.30
ATOM	1585	CG	GLU	B	234	61.693	90.489	80.493	1.00	53.77
ATOM	1586	CD	GLU	B	234	60.918	90.771	79.211	1.00	63.39
ATOM	1587	OE1	GLU	B	234	60.673	89.810	78.439	1.00	65.72
ATOM	1588	OE2	GLU	B	234	60.548	91.952	78.992	1.00	63.76
ATOM	1589	C	GLU	B	234	63.991	87.654	81.522	1.00	34.77
ATOM	1590	O	GLU	B	234	63.403	86.795	82.191	1.00	38.37
ATOM	1591	N	ILE	B	235	65.024	87.370	80.740	1.00	35.99
ATOM	1592	CA	ILE	B	235	65.509	86.007	80.662	1.00	34.33
ATOM	1593	CB	ILE	B	235	66.637	85.857	79.640	1.00	36.31
ATOM	1594	CG2	ILE	B	235	67.204	84.446	79.690	1.00	34.07
ATOM	1595	CG1	ILE	B	235	66.094	86.166	78.242	1.00	41.65
ATOM	1596	CD1	ILE	B	235	67.126	86.082	77.140	1.00	44.67
ATOM	1597	C	ILE	B	235	65.998	85.551	82.028	1.00	37.22
ATOM	1598	O	ILE	B	235	65.675	84.451	82.466	1.00	31.73
ATOM	1599	N	ASP	B	236	66.757	86.406	82.714	1.00	33.66
ATOM	1600	CA	ASP	B	236	67.280	86.047	84.032	1.00	36.26
ATOM	1601	CB	ASP	B	236	68.109	87.205	84.610	1.00	37.27
ATOM	1602	CG	ASP	B	236	68.845	86.822	85.895	1.00	42.86
ATOM	1603	OD1	ASP	B	236	68.773	87.591	86.866	1.00	44.20
ATOM	1604	OD2	ASP	B	236	69.501	85.764	85.934	1.00	46.00
ATOM	1605	C	ASP	B	236	66.132	85.718	84.975	1.00	34.87
ATOM	1606	O	ASP	B	236	66.174	84.728	85.721	1.00	33.16
ATOM	1607	N	TYR	B	237	65.099	86.549	84.935	1.00	32.77
ATOM	1608	CA	TYR	B	237	63.942	86.358	85.793	1.00	32.07
ATOM	1609	CB	TYR	B	237	62.928	87.471	85.547	1.00	34.90
ATOM	1610	CG	TYR	B	237	61.604	87.286	86.254	1.00	36.47
ATOM	1611	CD1	TYR	B	237	61.447	87.638	87.598	1.00	43.25
ATOM	1612	CE1	TYR	B	237	60.210	87.495	88.246	1.00	44.87
ATOM	1613	CD2	TYR	B	237	60.501	86.782	85.576	1.00	36.94
ATOM	1614	CE2	TYR	B	237	59.262	86.635	86.212	1.00	43.75
ATOM	1615	CZ	TYR	B	237	59.126	86.995	87.544	1.00	40.49
ATOM	1616	OH	TYR	B	237	57.903	86.859	88.154	1.00	43.71
ATOM	1617	C	TYR	B	237	63.279	85.010	85.538	1.00	35.24
ATOM	1618	O	TYR	B	237	63.044	84.229	86.466	1.00	31.53
ATOM	1619	N	LEU	B	238	62.978	84.743	84.274	1.00	32.80
ATOM	1620	CA	LEU	B	238	62.316	83.486	83.909	1.00	32.72
ATOM	1621	CB	LEU	B	238	62.001	83.483	82.416	1.00	32.07
ATOM	1622	CG	LEU	B	238	61.042	84.611	82.024	1.00	39.26
ATOM	1623	CD1	LEU	B	238	61.004	84.736	80.506	1.00	42.31
ATOM	1624	CD2	LEU	B	238	59.645	84.344	82.608	1.00	39.70
ATOM	1625	C	LEU	B	238	63.166	82.284	84.264	1.00	33.55
ATOM	1626	O	LEU	B	238	62.652	81.267	84.729	1.00	33.36
ATOM	1627	N	ASN	B	239	64.474	82.404	84.069	1.00	35.37
ATOM	1628	CA	ASN	B	239	65.362	81.300	84.371	1.00	32.85
ATOM	1629	CB	ASN	B	239	66.784	81.631	83.935	1.00	35.25
ATOM	1630	CG	ASN	B	239	67.688	80.417	83.960	1.00	40.39
ATOM	1631	OD1	ASN	B	239	67.458	79.437	83.246	1.00	39.71
ATOM	1632	ND2	ASN	B	239	68.720	80.469	84.794	1.00	40.41
ATOM	1633	C	ASN	B	239	65.336	80.963	85.866	1.00	35.55
ATOM	1634	O	ASN	B	239	65.509	79.810	86.249	1.00	37.45
ATOM	1635	N	LYS	B	240	65.103	81.969	86.698	1.00	35.39
ATOM	1636	CA	LYS	B	240	65.056	81.772	88.144	1.00	34.88
ATOM	1637	CB	LYS	B	240	65.421	83.085	88.853	1.00	40.25
ATOM	1638	CG	LYS	B	240	66.906	83.402	88.838	1.00	43.14
ATOM	1639	CD	LYS	B	240	67.231	84.811	89.328	1.00	48.38
ATOM	1640	CE	LYS	B	240	68.753	84.980	89.454	1.00	53.76
ATOM	1641	NZ	LYS	B	240	69.225	86.348	89.092	1.00	50.58
ATOM	1642	C	LYS	B	240	63.708	81.300	88.658	1.00	38.35
ATOM	1643	O	LYS	B	240	63.629	80.433	89.532	1.00	39.95
ATOM	1644	N	VAL	B	241	62.636	81.861	88.116	1.00	34.96
ATOM	1645	CA	VAL	B	241	61.323	81.525	88.614	1.00	35.35
ATOM	1646	CB	VAL	B	241	60.394	82.762	88.518	1.00	36.96
ATOM	1647	CG1	VAL	B	241	60.060	83.089	87.067	1.00	35.98
ATOM	1648	CG2	VAL	B	241	59.153	82.510	89.299	1.00	53.05
ATOM	1649	C	VAL	B	241	60.643	80.290	88.020	1.00	35.61

Translated Assessment

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ATOM   1650  O   VAL B 241      59.852  79.630  88.695  1.00 35.52
ATOM   1651  N   LEU B 242      60.982  79.921  86.794  1.00 33.51
ATOM   1652  CA  LEU B 242      60.327  78.761  86.190  1.00 30.78
ATOM   1653  CB  LEU B 242      60.360  78.899  84.666  1.00 32.19
ATOM   1654  CG  LEU B 242      59.569  80.051  84.059  1.00 31.61
ATOM   1655  CD1 LEU B 242      59.943  80.179  82.559  1.00 31.09
ATOM   1656  CD2 LEU B 242      58.083  79.805  84.223  1.00 28.50
ATOM   1657  C   LEU B 242      60.933  77.418  86.583  1.00 32.52
ATOM   1658  O   LEU B 242      62.141  77.307  86.755  1.00 33.62
ATOM   1659  N   PRO B 243      60.090  76.374  86.717  1.00 35.26
ATOM   1660  CD  PRO B 243      58.623  76.460  86.673  1.00 32.31
ATOM   1661  CA  PRO B 243      60.515  75.016  87.077  1.00 36.23
ATOM   1662  CB  PRO B 243      59.191  74.272  87.272  1.00 38.42
ATOM   1663  CG  PRO B 243      58.216  75.337  87.563  1.00 48.71
ATOM   1664  C   PRO B 243      61.306  74.371  85.944  1.00 37.97
ATOM   1665  O   PRO B 243      61.038  74.632  84.764  1.00 37.03
ATOM   1666  N   TYR B 244      62.264  73.519  86.282  1.00 34.11
ATOM   1667  CA  TYR B 244      63.011  72.827  85.247  1.00 36.98
ATOM   1668  CB  TYR B 244      64.289  72.208  85.808  1.00 36.81
ATOM   1669  CG  TYR B 244      64.948  71.252  84.840  1.00 39.38
ATOM   1670  CD1 TYR B 244      65.647  71.727  83.741  1.00 37.42
ATOM   1671  CE1 TYR B 244      66.214  70.857  82.809  1.00 42.18
ATOM   1672  CD2 TYR B 244      64.823  69.869  84.998  1.00 38.49
ATOM   1673  CE2 TYR B 244      65.381  68.990  84.079  1.00 43.05
ATOM   1674  CZ  TYR B 244      66.079  69.496  82.983  1.00 42.76
ATOM   1675  OH  TYR B 244      66.643  68.652  82.061  1.00 42.78
ATOM   1676  C   TYR B 244      62.166  71.695  84.639  1.00 38.75
ATOM   1677  O   TYR B 244      61.501  70.940  85.370  1.00 35.07
ATOM   1678  N   TYR B 245      62.201  71.598  83.307  1.00 36.38
ATOM   1679  CA  TYR B 245      61.529  70.542  82.554  1.00 34.22
ATOM   1680  CB  TYR B 245      60.231  71.025  81.899  1.00 37.31
ATOM   1681  CG  TYR B 245      59.073  71.208  82.846  1.00 34.59
ATOM   1682  CD1 TYR B 245      58.564  70.135  83.578  1.00 37.68
ATOM   1683  CE1 TYR B 245      57.462  70.296  84.422  1.00 42.16
ATOM   1684  CD2 TYR B 245      58.459  72.448  82.985  1.00 34.54
ATOM   1685  CE2 TYR B 245      57.361  72.620  83.827  1.00 37.31
ATOM   1686  CZ  TYR B 245      56.870  71.541  84.538  1.00 39.71
ATOM   1687  OH  TYR B 245      55.789  71.723  85.356  1.00 41.96
ATOM   1688  C   TYR B 245      62.513  70.151  81.462  1.00 32.73
ATOM   1689  O   TYR B 245      63.018  71.016  80.758  1.00 36.47
ATOM   1690  N   SER B 246      62.794  68.856  81.310  1.00 36.19
ATOM   1691  CA  SER B 246      63.741  68.403  80.292  1.00 32.78
ATOM   1692  CB  SER B 246      63.917  66.882  80.383  1.00 42.23
ATOM   1693  OG  SER B 246      62.665  66.224  80.245  1.00 44.66
ATOM   1694  C   SER B 246      63.330  68.778  78.849  1.00 34.05
ATOM   1695  O   SER B 246      64.169  68.840  77.956  1.00 36.39
ATOM   1696  N   SER B 247      62.042  69.006  78.627  1.00 34.40
ATOM   1697  CA  SER B 247      61.545  69.368  77.293  1.00 35.51
ATOM   1698  CB  SER B 247      60.071  68.985  77.163  1.00 37.38
ATOM   1699  OG  SER B 247      59.301  69.770  78.064  1.00 35.13
ATOM   1700  C   SER B 247      61.663  70.874  77.069  1.00 35.88
ATOM   1701  O   SER B 247      61.475  71.366  75.959  1.00 34.81
ATOM   1702  N   TYR B 248      61.968  71.603  78.139  1.00 34.68
ATOM   1703  CA  TYR B 248      62.071  73.055  78.085  1.00 28.99
ATOM   1704  CB  TYR B 248      63.211  73.490  77.164  1.00 30.41
ATOM   1705  CG  TYR B 248      64.550  73.019  77.698  1.00 30.14
ATOM   1706  CD1 TYR B 248      65.054  73.523  78.908  1.00 38.23
ATOM   1707  CE1 TYR B 248      66.249  73.048  79.443  1.00 34.12
ATOM   1708  CD2 TYR B 248      65.279  72.042  77.041  1.00 31.95
ATOM   1709  CE2 TYR B 248      66.481  71.563  77.566  1.00 38.68
ATOM   1710  CZ  TYR B 248      66.955  72.068  78.768  1.00 41.56
ATOM   1711  OH  TYR B 248      68.127  71.576  79.315  1.00 41.05
ATOM   1712  C   TYR B 248      60.755  73.730  77.720  1.00 30.81
ATOM   1713  O   TYR B 248      59.681  73.131  77.877  1.00 29.22
ATOM   1714  N   TYR B 249      60.838  74.983  77.268  1.00 29.85
ATOM   1715  CA  TYR B 249      59.652  75.793  76.980  1.00 28.77
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ATOM	1716	CB	TYR	B	249	59.533	76.939	77.996	1.00	29.98
ATOM	1717	CG	TYR	B	249	59.383	76.555	79.457	1.00	28.86
ATOM	1718	CD1	TYR	B	249	60.458	76.057	80.191	1.00	31.28
ATOM	1719	CE1	TYR	B	249	60.316	75.756	81.577	1.00	30.17
ATOM	1720	CD2	TYR	B	249	58.165	76.737	80.107	1.00	29.41
ATOM	1721	CE2	TYR	B	249	58.013	76.437	81.488	1.00	29.17
ATOM	1722	CZ	TYR	B	249	59.087	75.955	82.202	1.00	32.65
ATOM	1723	OH	TYR	B	249	58.916	75.673	83.546	1.00	33.17
ATOM	1724	C	TYR	B	249	59.671	76.476	75.619	1.00	27.56
ATOM	1725	O	TYR	B	249	60.706	76.992	75.203	1.00	26.62
ATOM	1726	N	TRP	B	250	58.500	76.541	74.988	1.00	31.58
ATOM	1727	CA	TRP	B	250	58.320	77.240	73.705	1.00	31.13
ATOM	1728	CB	TRP	B	250	57.026	76.782	73.021	1.00	26.00
ATOM	1729	CG	TRP	B	250	57.046	75.420	72.458	1.00	29.16
ATOM	1730	CD2	TRP	B	250	57.966	74.901	71.478	1.00	26.89
ATOM	1731	CE2	TRP	B	250	57.550	73.584	71.168	1.00	27.57
ATOM	1732	CE3	TRP	B	250	59.100	75.421	70.833	1.00	33.16
ATOM	1733	CD1	TRP	B	250	56.133	74.417	72.699	1.00	28.76
ATOM	1734	NE1	TRP	B	250	56.433	73.314	71.924	1.00	24.93
ATOM	1735	CZ2	TRP	B	250	58.230	72.779	70.233	1.00	30.93
ATOM	1736	CZ3	TRP	B	250	59.770	74.626	69.911	1.00	32.13
ATOM	1737	CH2	TRP	B	250	59.332	73.319	69.618	1.00	30.23
ATOM	1738	C	TRP	B	250	58.164	78.758	73.930	1.00	32.93
ATOM	1739	O	TRP	B	250	57.508	79.169	74.881	1.00	28.62
ATOM	1740	N	ILE	B	251	58.748	79.590	73.055	1.00	26.22
ATOM	1741	CA	ILE	B	251	58.541	81.024	73.155	1.00	28.03
ATOM	1742	CB	ILE	B	251	59.827	81.793	73.558	1.00	29.94
ATOM	1743	CG2	ILE	B	251	60.312	81.271	74.951	1.00	30.62
ATOM	1744	CG1	ILE	B	251	60.906	81.630	72.492	1.00	27.72
ATOM	1745	CD1	ILE	B	251	62.153	82.477	72.767	1.00	34.97
ATOM	1746	C	ILE	B	251	58.004	81.521	71.800	1.00	31.61
ATOM	1747	O	ILE	B	251	57.994	80.777	70.811	1.00	29.64
ATOM	1748	N	GLY	B	252	57.563	82.771	71.783	1.00	27.42
ATOM	1749	CA	GLY	B	252	56.943	83.376	70.618	1.00	33.08
ATOM	1750	C	GLY	B	252	57.799	83.793	69.430	1.00	33.51
ATOM	1751	O	GLY	B	252	57.659	84.909	68.945	1.00	34.35
ATOM	1752	N	ILE	B	253	58.656	82.888	68.968	1.00	34.25
ATOM	1753	CA	ILE	B	253	59.515	83.133	67.819	1.00	35.30
ATOM	1754	CB	ILE	B	253	60.985	83.304	68.229	1.00	33.08
ATOM	1755	CG2	ILE	B	253	61.849	83.570	66.995	1.00	37.37
ATOM	1756	CG1	ILE	B	253	61.129	84.485	69.185	1.00	35.02
ATOM	1757	CD1	ILE	B	253	62.552	84.661	69.695	1.00	41.16
ATOM	1758	C	ILE	B	253	59.395	81.917	66.904	1.00	35.85
ATOM	1759	O	ILE	B	253	59.485	80.758	67.353	1.00	33.24
ATOM	1760	N	ARG	B	254	59.141	82.179	65.630	1.00	30.77
ATOM	1761	CA	ARG	B	254	59.022	81.094	64.657	1.00	32.34
ATOM	1762	CB	ARG	B	254	57.582	80.650	64.481	1.00	33.59
ATOM	1763	CG	ARG	B	254	57.504	79.388	63.632	1.00	46.32
ATOM	1764	CD	ARG	B	254	56.248	79.331	62.822	1.00	55.02
ATOM	1765	NE	ARG	B	254	55.238	78.487	63.433	1.00	54.76
ATOM	1766	CZ	ARG	B	254	55.079	77.194	63.175	1.00	55.06
ATOM	1767	NH1	ARG	B	254	55.869	76.580	62.309	1.00	61.85
ATOM	1768	NH2	ARG	B	254	54.107	76.518	63.775	1.00	50.82
ATOM	1769	C	ARG	B	254	59.532	81.565	63.305	1.00	33.95
ATOM	1770	O	ARG	B	254	59.440	82.744	62.980	1.00	36.81
ATOM	1771	N	LYS	B	255	60.062	80.632	62.527	1.00	32.98
ATOM	1772	CA	LYS	B	255	60.602	80.969	61.217	1.00	40.23
ATOM	1773	CB	LYS	B	255	61.564	79.866	60.758	1.00	39.36
ATOM	1774	CG	LYS	B	255	62.716	80.345	59.885	1.00	46.83
ATOM	1775	CD	LYS	B	255	63.522	79.152	59.357	1.00	51.93
ATOM	1776	CE	LYS	B	255	64.219	78.394	60.475	1.00	48.62
ATOM	1777	NZ	LYS	B	255	64.747	77.064	60.048	1.00	48.30
ATOM	1778	C	LYS	B	255	59.451	81.119	60.238	1.00	40.96
ATOM	1779	O	LYS	B	255	58.631	80.213	60.084	1.00	42.31
ATOM	1780	N	ASN	B	256	59.374	82.287	59.611	1.00	44.68
ATOM	1781	CA	ASN	B	256	58.350	82.581	58.611	1.00	49.09

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ATOM	1782	CB	ASN	B	256	57.676	83.912	58.929	1.00	50.64
ATOM	1783	CG	ASN	B	256	57.058	84.551	57.710	1.00	59.38
ATOM	1784	OD1	ASN	B	256	56.169	83.981	57.074	1.00	59.12
ATOM	1785	ND2	ASN	B	256	57.535	85.744	57.369	1.00	64.40
ATOM	1786	C	ASN	B	256	59.094	82.652	57.275	1.00	49.35
ATOM	1787	O	ASN	B	256	59.939	83.528	57.077	1.00	46.34
ATOM	1788	N	ALA	B	257	58.767	81.739	56.363	1.00	49.05
ATOM	1789	CA	ALA	B	257	59.473	81.654	55.090	1.00	53.21
ATOM	1790	CB	ALA	B	257	59.694	83.050	54.471	1.00	53.88
ATOM	1791	C	ALA	B	257	60.794	81.067	55.569	1.00	57.00
ATOM	1792	O	ALA	B	257	60.844	79.923	56.030	1.00	60.54
ATOM	1793	N	ALA	B	258	61.853	81.855	55.502	1.00	54.68
ATOM	1794	CA	ALA	B	258	63.143	81.384	55.955	1.00	55.89
ATOM	1795	CB	ALA	B	258	64.095	81.234	54.762	1.00	57.43
ATOM	1796	C	ALA	B	258	63.662	82.432	56.927	1.00	52.09
ATOM	1797	O	ALA	B	258	64.856	82.527	57.170	1.00	55.84
ATOM	1798	N	THR	B	259	62.746	83.203	57.497	1.00	46.03
ATOM	1799	CA	THR	B	259	63.120	84.275	58.407	1.00	47.96
ATOM	1800	CB	THR	B	259	62.669	85.602	57.810	1.00	51.10
ATOM	1801	OG1	THR	B	259	63.240	85.734	56.500	1.00	55.13
ATOM	1802	CG2	THR	B	259	63.085	86.768	58.693	1.00	49.03
ATOM	1803	C	THR	B	259	62.593	84.185	59.848	1.00	44.23
ATOM	1804	O	THR	B	259	61.383	84.137	60.073	1.00	42.78
ATOM	1805	N	TRP	B	260	63.507	84.179	60.817	1.00	41.36
ATOM	1806	CA	TRP	B	260	63.103	84.132	62.223	1.00	41.53
ATOM	1807	CB	TRP	B	260	64.323	84.042	63.150	1.00	38.04
ATOM	1808	CG	TRP	B	260	64.967	82.693	63.071	1.00	39.05
ATOM	1809	CD2	TRP	B	260	64.412	81.453	63.533	1.00	36.49
ATOM	1810	CE2	TRP	B	260	65.336	80.433	63.207	1.00	39.26
ATOM	1811	CE3	TRP	B	260	63.223	81.108	64.190	1.00	35.89
ATOM	1812	CD1	TRP	B	260	66.174	82.382	62.500	1.00	37.46
ATOM	1813	NE1	TRP	B	260	66.400	81.028	62.577	1.00	38.56
ATOM	1814	CZ2	TRP	B	260	65.110	79.085	63.522	1.00	37.21
ATOM	1815	CZ3	TRP	B	260	62.998	79.770	64.503	1.00	34.40
ATOM	1816	CH2	TRP	B	260	63.938	78.776	64.168	1.00	35.47
ATOM	1817	C	TRP	B	260	62.294	85.375	62.497	1.00	42.02
ATOM	1818	O	TRP	B	260	62.709	86.491	62.172	1.00	45.66
ATOM	1819	N	THR	B	261	61.134	85.178	63.105	1.00	37.22
ATOM	1820	CA	THR	B	261	60.213	86.272	63.359	1.00	35.08
ATOM	1821	CB	THR	B	261	59.123	86.253	62.276	1.00	42.30
ATOM	1822	OG1	THR	B	261	59.738	86.234	60.979	1.00	50.11
ATOM	1823	CG2	THR	B	261	58.216	87.444	62.403	1.00	41.96
ATOM	1824	C	THR	B	261	59.497	86.205	64.714	1.00	39.66
ATOM	1825	O	THR	B	261	59.146	85.116	65.172	1.00	37.61
ATOM	1826	N	TRP	B	262	59.294	87.366	65.342	1.00	36.80
ATOM	1827	CA	TRP	B	262	58.535	87.468	66.594	1.00	38.37
ATOM	1828	CB	TRP	B	262	58.639	88.864	67.198	1.00	39.41
ATOM	1829	CG	TRP	B	262	59.985	89.179	67.675	1.00	44.18
ATOM	1830	CD2	TRP	B	262	60.600	88.662	68.845	1.00	44.05
ATOM	1831	CE2	TRP	B	262	61.915	89.176	68.892	1.00	48.02
ATOM	1832	CE3	TRP	B	262	60.171	87.810	69.864	1.00	45.49
ATOM	1833	CD1	TRP	B	262	60.920	89.972	67.063	1.00	48.56
ATOM	1834	NE1	TRP	B	262	62.087	89.975	67.791	1.00	49.95
ATOM	1835	CZ2	TRP	B	262	62.800	88.861	69.918	1.00	51.22
ATOM	1836	CZ3	TRP	B	262	61.057	87.497	70.885	1.00	50.36
ATOM	1837	CH2	TRP	B	262	62.352	88.021	70.903	1.00	49.11
ATOM	1838	C	TRP	B	262	57.100	87.270	66.153	1.00	38.44
ATOM	1839	O	TRP	B	262	56.591	88.068	65.374	1.00	38.06
ATOM	1840	N	VAL	B	263	56.417	86.249	66.656	1.00	36.22
ATOM	1841	CA	VAL	B	263	55.069	86.041	66.165	1.00	35.44
ATOM	1842	CB	VAL	B	263	54.566	84.607	66.437	1.00	34.38
ATOM	1843	CG1	VAL	B	263	55.532	83.608	65.815	1.00	30.91
ATOM	1844	CG2	VAL	B	263	54.381	84.376	67.927	1.00	30.72
ATOM	1845	C	VAL	B	263	54.071	87.047	66.676	1.00	34.05
ATOM	1846	O	VAL	B	263	53.008	87.215	66.082	1.00	36.93
ATOM	1847	N	GLY	B	264	54.409	87.750	67.750	1.00	32.91

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ATOM	1848	CA	GLY	B	264	53.476	88.736	68.265	1.00	37.11
ATOM	1849	C	GLY	B	264	53.407	89.991	67.396	1.00	42.34
ATOM	1850	O	GLY	B	264	52.333	90.407	66.950	1.00	47.14
ATOM	1851	N	THR	B	265	54.556	90.601	67.141	1.00	38.70
ATOM	1852	CA	THR	B	265	54.590	91.817	66.334	1.00	45.89
ATOM	1853	CB	THR	B	265	55.680	92.751	66.825	1.00	44.84
ATOM	1854	OG1	THR	B	265	56.925	92.053	66.836	1.00	47.83
ATOM	1855	CG2	THR	B	265	55.352	93.252	68.218	1.00	45.69
ATOM	1856	C	THR	B	265	54.822	91.563	64.852	1.00	48.50
ATOM	1857	O	THR	B	265	54.641	92.467	64.025	1.00	50.23
ATOM	1858	N	LYS	B	266	55.236	90.338	64.533	1.00	46.62
ATOM	1859	CA	LYS	B	266	55.515	89.914	63.166	1.00	46.79
ATOM	1860	CB	LYS	B	266	54.305	90.208	62.268	1.00	47.05
ATOM	1861	CG	LYS	B	266	53.142	89.268	62.580	1.00	56.78
ATOM	1862	CD	LYS	B	266	51.869	89.595	61.827	1.00	60.46
ATOM	1863	CE	LYS	B	266	50.815	88.526	62.107	1.00	67.44
ATOM	1864	NZ	LYS	B	266	49.435	88.930	61.673	1.00	76.10
ATOM	1865	C	LYS	B	266	56.781	90.536	62.588	1.00	52.24
ATOM	1866	O	LYS	B	266	57.000	90.514	61.375	1.00	52.40
ATOM	1867	N	LYS	B	267	57.627	91.066	63.462	1.00	47.62
ATOM	1868	CA	LYS	B	267	58.864	91.680	63.009	1.00	48.92
ATOM	1869	CB	LYS	B	267	59.148	92.942	63.828	1.00	47.99
ATOM	1870	CG	LYS	B	267	57.952	93.903	63.865	1.00	58.75
ATOM	1871	CD	LYS	B	267	58.369	95.374	63.790	1.00	67.13
ATOM	1872	CE	LYS	B	267	59.197	95.829	64.997	1.00	71.32
ATOM	1873	NZ	LYS	B	267	58.414	95.925	66.270	1.00	75.44
ATOM	1874	C	LYS	B	267	60.021	90.695	63.093	1.00	50.17
ATOM	1875	O	LYS	B	267	60.096	89.877	64.017	1.00	42.62
ATOM	1876	N	ALA	B	268	60.904	90.764	62.102	1.00	48.65
ATOM	1877	CA	ALA	B	268	62.061	89.886	62.028	1.00	50.32
ATOM	1878	CB	ALA	B	268	62.849	90.168	60.766	1.00	51.39
ATOM	1879	C	ALA	B	268	62.962	90.036	63.245	1.00	51.62
ATOM	1880	O	ALA	B	268	63.122	91.125	63.801	1.00	49.98
ATOM	1881	N	LEU	B	269	63.548	88.919	63.650	1.00	51.53
ATOM	1882	CA	LEU	B	269	64.438	88.887	64.796	1.00	57.40
ATOM	1883	CB	LEU	B	269	64.713	87.429	65.163	1.00	52.21
ATOM	1884	CG	LEU	B	269	65.540	87.137	66.400	1.00	55.88
ATOM	1885	CD1	LEU	B	269	64.827	87.673	67.628	1.00	57.99
ATOM	1886	CD2	LEU	B	269	65.753	85.642	66.505	1.00	49.56
ATOM	1887	C	LEU	B	269	65.741	89.603	64.429	1.00	61.09
ATOM	1888	O	LEU	B	269	66.361	89.282	63.413	1.00	59.89
ATOM	1889	N	THR	B	270	66.146	90.577	65.242	1.00	64.86
ATOM	1890	CA	THR	B	270	67.382	91.314	64.974	1.00	67.87
ATOM	1891	CB	THR	B	270	67.279	92.802	65.386	1.00	67.54
ATOM	1892	OG1	THR	B	270	67.108	92.894	66.805	1.00	66.78
ATOM	1893	CG2	THR	B	270	66.106	93.478	64.687	1.00	63.69
ATOM	1894	C	THR	B	270	68.546	90.700	65.740	1.00	69.79
ATOM	1895	O	THR	B	270	68.351	89.930	66.680	1.00	68.93
ATOM	1896	N	ASN	B	271	69.760	91.053	65.335	1.00	69.63
ATOM	1897	CA	ASN	B	271	70.950	90.535	65.990	1.00	71.53
ATOM	1898	CB	ASN	B	271	72.185	90.907	65.172	1.00	70.70
ATOM	1899	CG	ASN	B	271	72.100	90.403	63.739	1.00	74.40
ATOM	1900	OD1	ASN	B	271	72.906	90.771	62.887	1.00	76.12
ATOM	1901	ND2	ASN	B	271	71.114	89.552	63.469	1.00	76.47
ATOM	1902	C	ASN	B	271	71.050	91.096	67.403	1.00	72.56
ATOM	1903	O	ASN	B	271	71.777	90.570	68.246	1.00	73.74
ATOM	1904	N	ALA	B	272	70.298	92.157	67.663	1.00	72.82
ATOM	1905	CA	ALA	B	272	70.298	92.791	68.972	1.00	75.09
ATOM	1906	CB	ALA	B	272	69.744	94.209	68.852	1.00	75.26
ATOM	1907	C	ALA	B	272	69.508	92.003	70.028	1.00	75.87
ATOM	1908	O	ALA	B	272	69.874	91.996	71.205	1.00	76.42
ATOM	1909	N	ALA	B	273	68.426	91.348	69.611	1.00	75.64
ATOM	1910	CA	ALA	B	273	67.594	90.575	70.537	1.00	74.09
ATOM	1911	CB	ALA	B	273	66.160	90.520	70.023	1.00	72.94
ATOM	1912	C	ALA	B	273	68.148	89.163	70.701	1.00	72.60
ATOM	1913	O	ALA	B	273	68.132	88.591	71.797	1.00	72.60

ATOM 1914 N GLU B 274 68.632 88.619 69.589 1.00 67.37
ATOM 1915 CA GLU B 274 69.223 87.287 69.516 1.00 64.80
ATOM 1916 CB GLU B 274 70.263 87.293 68.381 1.00 65.83
ATOM 1917 CG GLU B 274 71.130 86.047 68.254 1.00 70.53
ATOM 1918 CD GLU B 274 72.322 86.025 69.201 1.00 70.80
ATOM 1919 OE1 GLU B 274 73.116 86.987 69.173 1.00 71.68
ATOM 1920 OE2 GLU B 274 72.474 85.041 69.962 1.00 70.72
ATOM 1921 C GLU B 274 69.870 86.773 70.813 1.00 62.33
ATOM 1922 O GLU B 274 70.643 87.489 71.452 1.00 62.47
ATOM 1923 N ASN B 275 69.549 85.535 71.199 1.00 56.96
ATOM 1924 CA ASN B 275 70.141 84.915 72.389 1.00 49.31
ATOM 1925 CB ASN B 275 69.273 85.150 73.633 1.00 50.06
ATOM 1926 CG ASN B 275 70.034 84.881 74.919 1.00 50.26
ATOM 1927 OD1 ASN B 275 71.225 85.179 75.008 1.00 54.61
ATOM 1928 ND2 ASN B 275 69.359 84.328 75.919 1.00 51.81
ATOM 1929 C ASN B 275 70.345 83.411 72.157 1.00 47.54
ATOM 1930 O ASN B 275 70.161 82.580 73.055 1.00 40.58
ATOM 1931 N TRP B 276 70.744 83.079 70.934 1.00 42.48
ATOM 1932 CA TRP B 276 70.982 81.699 70.548 1.00 43.60
ATOM 1933 CB TRP B 276 71.344 81.602 69.059 1.00 40.56
ATOM 1934 CG TRP B 276 70.268 82.051 68.127 1.00 45.37
ATOM 1935 CD2 TRP B 276 69.035 81.374 67.846 1.00 44.02
ATOM 1936 CE2 TRP B 276 68.347 82.144 66.876 1.00 48.34
ATOM 1937 CE3 TRP B 276 68.443 80.191 68.320 1.00 45.70
ATOM 1938 CD1 TRP B 276 70.277 83.167 67.346 1.00 44.55
ATOM 1939 NE1 TRP B 276 69.127 83.234 66.591 1.00 48.31
ATOM 1940 CZ2 TRP B 276 67.091 81.767 66.364 1.00 49.32
ATOM 1941 CZ3 TRP B 276 67.191 79.815 67.811 1.00 43.48
ATOM 1942 CH2 TRP B 276 66.532 80.603 66.844 1.00 42.01
ATOM 1943 C TRP B 276 72.101 81.061 71.349 1.00 43.57
ATOM 1944 O TRP B 276 73.103 81.706 71.684 1.00 41.43
ATOM 1945 N ALA B 277 71.922 79.781 71.650 1.00 41.73
ATOM 1946 CA ALA B 277 72.927 79.028 72.368 1.00 44.62
ATOM 1947 CB ALA B 277 72.353 77.709 72.840 1.00 37.19
ATOM 1948 C ALA B 277 74.045 78.788 71.359 1.00 46.01
ATOM 1949 O ALA B 277 73.826 78.895 70.144 1.00 45.17
ATOM 1950 N ASP B 278 75.237 78.461 71.847 1.00 49.38
ATOM 1951 CA ASP B 278 76.361 78.211 70.948 1.00 51.71
ATOM 1952 CB ASP B 278 77.589 77.751 71.735 1.00 56.33
ATOM 1953 CG ASP B 278 78.042 78.767 72.767 1.00 61.51
ATOM 1954 OD1 ASP B 278 77.914 79.981 72.499 1.00 53.95
ATOM 1955 OD2 ASP B 278 78.538 78.348 73.840 1.00 62.68
ATOM 1956 C ASP B 278 76.014 77.132 69.923 1.00 52.13
ATOM 1957 O ASP B 278 75.397 76.121 70.263 1.00 53.44
ATOM 1958 N ASN B 279 76.405 77.358 68.672 1.00 52.11
ATOM 1959 CA ASN B 279 76.171 76.392 67.603 1.00 53.42
ATOM 1960 CB ASN B 279 76.617 74.999 68.076 1.00 57.31
ATOM 1961 CG ASN B 279 78.065 74.987 68.581 1.00 63.99
ATOM 1962 OD1 ASN B 279 78.391 74.342 69.591 1.00 63.78
ATOM 1963 ND2 ASN B 279 78.938 75.695 67.872 1.00 60.04
ATOM 1964 C ASN B 279 74.726 76.332 67.085 1.00 51.75
ATOM 1965 O ASN B 279 74.407 75.503 66.236 1.00 52.92
ATOM 1966 N GLU B 280 73.858 77.206 67.584 1.00 46.32
ATOM 1967 CA GLU B 280 72.468 77.232 67.146 1.00 43.30
ATOM 1968 CB GLU B 280 71.508 77.086 68.338 1.00 37.29
ATOM 1969 CG GLU B 280 71.727 75.855 69.210 1.00 40.02
ATOM 1970 CD GLU B 280 71.392 74.532 68.510 1.00 40.66
ATOM 1971 OE1 GLU B 280 70.803 74.558 67.405 1.00 35.63
ATOM 1972 OE2 GLU B 280 71.720 73.466 69.082 1.00 38.35
ATOM 1973 C GLU B 280 72.233 78.579 66.498 1.00 46.22
ATOM 1974 O GLU B 280 72.958 79.538 66.775 1.00 44.40
ATOM 1975 N PRO B 281 71.228 78.677 65.612 1.00 43.24
ATOM 1976 CD PRO B 281 70.786 79.967 65.060 1.00 41.75
ATOM 1977 CA PRO B 281 70.330 77.595 65.196 1.00 41.58
ATOM 1978 CB PRO B 281 69.209 78.341 64.480 1.00 40.55
ATOM 1979 CG PRO B 281 69.896 79.537 63.917 1.00 44.78

PDB entry 3MJ5 coordinates

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ATOM   1980  C   PRO B 281      71.099  76.658  64.269  1.00 44.95
ATOM   1981  O   PRO B 281      71.962  77.111  63.521  1.00 47.79
ATOM   1982  N   ASN B 282      70.798  75.364  64.321  1.00 43.80
ATOM   1983  CA  ASN B 282      71.487  74.386  63.478  1.00 46.04
ATOM   1984  CB  ASN B 282      72.328  73.440  64.345  1.00 44.14
ATOM   1985  CG  ASN B 282      71.478  72.537  65.233  1.00 42.22
ATOM   1986  OD1 ASN B 282      70.255  72.499  65.114  1.00 42.81
ATOM   1987  ND2 ASN B 282      72.127  71.797  66.115  1.00 39.55
ATOM   1988  C   ASN B 282      70.543  73.559  62.593  1.00 50.91
ATOM   1989  O   ASN B 282      71.001  72.670  61.870  1.00 50.22
ATOM   1990  N   ASN B 283      69.239  73.848  62.666  1.00 46.49
ATOM   1991  CA  ASN B 283      68.218  73.148  61.878  1.00 46.60
ATOM   1992  CB  ASN B 283      68.071  73.816  60.506  1.00 47.11
ATOM   1993  CG  ASN B 283      66.715  73.560  59.862  1.00 52.55
ATOM   1994  OD1 ASN B 283      66.460  73.986  58.726  1.00 51.99
ATOM   1995  ND2 ASN B 283      65.837  72.870  60.578  1.00 38.82
ATOM   1996  C   ASN B 283      68.611  71.693  61.685  1.00 43.64
ATOM   1997  O   ASN B 283      68.501  71.158  60.580  1.00 47.99
ATOM   1998  N   LYS B 284      69.045  71.045  62.757  1.00 41.94
ATOM   1999  CA  LYS B 284      69.525  69.677  62.648  1.00 45.61
ATOM   2000  CB  LYS B 284      70.173  69.231  63.953  1.00 47.23
ATOM   2001  CG  LYS B 284      70.956  67.952  63.768  1.00 53.24
ATOM   2002  CD  LYS B 284      72.249  67.975  64.553  1.00 64.34
ATOM   2003  CE  LYS B 284      73.212  66.909  64.051  1.00 61.76
ATOM   2004  NZ  LYS B 284      74.542  66.995  64.725  1.00 70.38
ATOM   2005  C   LYS B 284      68.557  68.607  62.186  1.00 48.57
ATOM   2006  O   LYS B 284      68.917  67.767  61.363  1.00 42.76
ATOM   2007  N   ARG B 285      67.339  68.602  62.713  1.00 46.66
ATOM   2008  CA  ARG B 285      66.368  67.587  62.297  1.00 45.79
ATOM   2009  CB  ARG B 285      65.302  67.409  63.391  1.00 44.86
ATOM   2010  CG  ARG B 285      64.404  66.182  63.183  1.00 48.15
ATOM   2011  CD  ARG B 285      63.210  66.167  64.128  1.00 45.44
ATOM   2012  NE  ARG B 285      63.612  66.077  65.524  1.00 46.63
ATOM   2013  CZ  ARG B 285      63.568  64.969  66.254  1.00 47.31
ATOM   2014  NH1 ARG B 285      63.133  63.829  65.734  1.00 36.65
ATOM   2015  NH2 ARG B 285      63.956  65.007  67.518  1.00 43.31
ATOM   2016  C   ARG B 285      65.691  68.025  60.996  1.00 43.61
ATOM   2017  O   ARG B 285      64.964  67.257  60.363  1.00 49.21
ATOM   2018  N   ASN B 286      65.977  69.262  60.608  1.00 42.06
ATOM   2019  CA  ASN B 286      65.401  69.943  59.456  1.00 43.66
ATOM   2020  CB  ASN B 286      65.303  69.054  58.218  1.00 45.60
ATOM   2021  CG  ASN B 286      64.946  69.850  56.985  1.00 55.42
ATOM   2022  OD1 ASN B 286      65.267  71.046  56.888  1.00 57.79
ATOM   2023  ND2 ASN B 286      64.283  69.206  56.031  1.00 62.33
ATOM   2024  C   ASN B 286      64.013  70.362  59.908  1.00 38.79
ATOM   2025  O   ASN B 286      63.402  69.692  60.734  1.00 41.56
ATOM   2026  N   ASN B 287      63.527  71.475  59.381  1.00 39.58
ATOM   2027  CA  ASN B 287      62.229  71.991  59.773  1.00 40.17
ATOM   2028  CB  ASN B 287      61.140  70.939  59.512  1.00 43.41
ATOM   2029  CG  ASN B 287      61.121  70.485  58.061  1.00 45.62
ATOM   2030  OD1 ASN B 287      60.944  71.301  57.156  1.00 47.23
ATOM   2031  ND2 ASN B 287      61.315  69.190  57.836  1.00 45.41
ATOM   2032  C   ASN B 287      62.235  72.402  61.256  1.00 42.61
ATOM   2033  O   ASN B 287      61.198  72.342  61.914  1.00 38.03
ATOM   2034  N   GLU B 288      63.396  72.798  61.788  1.00 37.15
ATOM   2035  CA  GLU B 288      63.446  73.252  63.189  1.00 38.52
ATOM   2036  CB  GLU B 288      64.842  73.037  63.801  1.00 36.97
ATOM   2037  CG  GLU B 288      65.228  71.574  63.872  1.00 34.81
ATOM   2038  CD  GLU B 288      66.436  71.276  64.745  1.00 37.93
ATOM   2039  OE1 GLU B 288      67.205  72.198  65.069  1.00 33.99
ATOM   2040  OE2 GLU B 288      66.627  70.102  65.109  1.00 38.13
ATOM   2041  C   GLU B 288      63.085  74.735  63.098  1.00 39.17
ATOM   2042  O   GLU B 288      63.937  75.627  63.162  1.00 43.34
ATOM   2043  N   ASP B 289      61.792  74.982  62.942  1.00 35.15
ATOM   2044  CA  ASP B 289      61.290  76.320  62.748  1.00 32.85
ATOM   2045  CB  ASP B 289      60.205  76.297  61.691  1.00 34.53
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ATOM 2046 CG ASP B 289 60.674 75.699 60.398 1.00 42.05
ATOM 2047 OD1 ASP B 289 61.903 75.615 60.185 1.00 33.18
ATOM 2048 OD2 ASP B 289 59.805 75.323 59.591 1.00 45.55
ATOM 2049 C ASP B 289 60.739 77.049 63.954 1.00 31.64
ATOM 2050 O ASP B 289 60.221 78.142 63.792 1.00 35.08
ATOM 2051 N CYS B 290 60.817 76.440 65.140 1.00 32.79
ATOM 2052 CA CYS B 290 60.294 77.071 66.355 1.00 30.16
ATOM 2053 C CYS B 290 61.404 77.214 67.415 1.00 28.25
ATOM 2054 O CYS B 290 62.377 76.452 67.427 1.00 34.73
ATOM 2055 CB CYS B 290 59.096 76.247 66.906 1.00 31.52
ATOM 2056 SG CYS B 290 57.586 76.380 65.889 1.00 36.84
ATOM 2057 N VAL B 291 61.252 78.191 68.312 1.00 31.08
ATOM 2058 CA VAL B 291 62.282 78.421 69.321 1.00 31.23
ATOM 2059 CB VAL B 291 62.695 79.922 69.340 1.00 34.42
ATOM 2060 CG1 VAL B 291 63.816 80.162 70.359 1.00 33.40
ATOM 2061 CG2 VAL B 291 63.173 80.347 67.951 1.00 36.98
ATOM 2062 C VAL B 291 61.864 78.013 70.744 1.00 27.61
ATOM 2063 O VAL B 291 60.764 78.342 71.190 1.00 29.42
ATOM 2064 N GLU B 292 62.753 77.290 71.423 1.00 28.06
ATOM 2065 CA GLU B 292 62.569 76.892 72.816 1.00 29.60
ATOM 2066 CB GLU B 292 62.815 75.385 73.009 1.00 31.63
ATOM 2067 CG GLU B 292 64.279 74.957 72.865 1.00 34.34
ATOM 2068 CD GLU B 292 64.547 73.508 73.237 1.00 36.38
ATOM 2069 OE1 GLU B 292 63.730 72.898 73.953 1.00 33.91
ATOM 2070 OE2 GLU B 292 65.601 72.970 72.823 1.00 39.07
ATOM 2071 C GLU B 292 63.630 77.685 73.619 1.00 34.08
ATOM 2072 O GLU B 292 64.658 78.083 73.069 1.00 30.16
ATOM 2073 N ILE B 293 63.364 77.922 74.901 1.00 29.98
ATOM 2074 CA ILE B 293 64.316 78.614 75.759 1.00 29.88
ATOM 2075 CB ILE B 293 63.709 79.912 76.368 1.00 33.67
ATOM 2076 CG2 ILE B 293 62.473 79.601 77.183 1.00 30.82
ATOM 2077 CG1 ILE B 293 64.766 80.625 77.221 1.00 33.01
ATOM 2078 CD1 ILE B 293 64.326 82.001 77.716 1.00 36.39
ATOM 2079 C ILE B 293 64.738 77.618 76.845 1.00 30.87
ATOM 2080 O ILE B 293 63.908 76.961 77.479 1.00 32.04
ATOM 2081 N TYR B 294 66.047 77.498 77.008 1.00 31.85
ATOM 2082 CA TYR B 294 66.680 76.580 77.938 1.00 31.99
ATOM 2083 CB TYR B 294 68.150 76.426 77.550 1.00 31.22
ATOM 2084 CG TYR B 294 68.416 75.639 76.276 1.00 33.87
ATOM 2085 CD1 TYR B 294 67.680 74.485 75.970 1.00 39.08
ATOM 2086 CE1 TYR B 294 68.033 73.670 74.877 1.00 38.67
ATOM 2087 CD2 TYR B 294 69.506 75.964 75.452 1.00 39.20
ATOM 2088 CE2 TYR B 294 69.869 75.155 74.371 1.00 41.07
ATOM 2089 CZ TYR B 294 69.130 74.011 74.093 1.00 43.12
ATOM 2090 OH TYR B 294 69.519 73.204 73.041 1.00 42.69
ATOM 2091 C TYR B 294 66.600 76.956 79.421 1.00 36.37
ATOM 2092 O TYR B 294 67.633 77.183 80.063 1.00 37.30
ATOM 2093 N ILE B 295 65.388 77.006 79.959 1.00 34.43
ATOM 2094 CA ILE B 295 65.192 77.340 81.365 1.00 34.96
ATOM 2095 CB ILE B 295 63.702 77.327 81.738 1.00 34.53
ATOM 2096 CG2 ILE B 295 63.523 77.529 83.264 1.00 32.92
ATOM 2097 CG1 ILE B 295 62.968 78.433 80.980 1.00 32.57
ATOM 2098 CD1 ILE B 295 63.535 79.841 81.188 1.00 30.51
ATOM 2099 C ILE B 295 65.914 76.322 82.235 1.00 36.53
ATOM 2100 O ILE B 295 65.642 75.121 82.159 1.00 33.27
ATOM 2101 N LYS B 296 66.830 76.804 83.065 1.00 36.17
ATOM 2102 CA LYS B 296 67.576 75.925 83.969 1.00 34.36
ATOM 2103 CB LYS B 296 66.629 75.316 85.018 1.00 36.17
ATOM 2104 CG LYS B 296 66.181 76.323 86.098 1.00 37.73
ATOM 2105 CD LYS B 296 65.331 75.672 87.181 1.00 35.70
ATOM 2106 CE LYS B 296 65.099 76.609 88.387 1.00 39.70
ATOM 2107 NZ LYS B 296 64.292 77.826 88.080 1.00 35.41
ATOM 2108 C LYS B 296 68.416 74.821 83.316 1.00 38.89
ATOM 2109 O LYS B 296 68.696 73.788 83.936 1.00 38.17
ATOM 2110 N SER B 297 68.820 75.029 82.067 1.00 38.65
ATOM 2111 CA SER B 297 69.682 74.056 81.401 1.00 36.35

ATOM	2112	CB	SER	B	297	69.944	74.474	79.961	1.00	39.89
ATOM	2113	OG	SER	B	297	71.175	73.937	79.505	1.00	40.03
ATOM	2114	C	SER	B	297	71.001	74.112	82.160	1.00	43.78
ATOM	2115	O	SER	B	297	71.439	75.192	82.555	1.00	37.39
ATOM	2116	N	PRO	B	298	71.648	72.961	82.382	1.00	44.74
ATOM	2117	CD	PRO	B	298	71.169	71.578	82.228	1.00	45.88
ATOM	2118	CA	PRO	B	298	72.915	72.990	83.106	1.00	47.40
ATOM	2119	CB	PRO	B	298	73.108	71.532	83.518	1.00	48.12
ATOM	2120	CG	PRO	B	298	72.446	70.781	82.410	1.00	49.59
ATOM	2121	C	PRO	B	298	74.077	73.512	82.281	1.00	50.05
ATOM	2122	O	PRO	B	298	75.097	73.923	82.828	1.00	50.23
ATOM	2123	N	SER	B	299	73.919	73.511	80.962	1.00	48.40
ATOM	2124	CA	SER	B	299	74.985	73.957	80.079	1.00	43.17
ATOM	2125	CB	SER	B	299	75.252	72.885	79.016	1.00	50.08
ATOM	2126	OG	SER	B	299	74.072	72.597	78.273	1.00	48.06
ATOM	2127	C	SER	B	299	74.753	75.302	79.389	1.00	46.90
ATOM	2128	O	SER	B	299	75.713	76.006	79.083	1.00	45.50
ATOM	2129	N	ALA	B	300	73.498	75.670	79.140	1.00	42.47
ATOM	2130	CA	ALA	B	300	73.236	76.936	78.464	1.00	39.67
ATOM	2131	CB	ALA	B	300	73.170	76.707	76.946	1.00	38.94
ATOM	2132	C	ALA	B	300	71.963	77.611	78.963	1.00	38.79
ATOM	2133	O	ALA	B	300	71.034	77.888	78.200	1.00	40.64
ATOM	2134	N	PRO	B	301	71.920	77.922	80.260	1.00	42.22
ATOM	2135	CD	PRO	B	301	73.017	77.867	81.241	1.00	41.62
ATOM	2136	CA	PRO	B	301	70.733	78.566	80.820	1.00	39.52
ATOM	2137	CB	PRO	B	301	71.120	78.784	82.281	1.00	44.51
ATOM	2138	CG	PRO	B	301	72.639	78.954	82.204	1.00	42.55
ATOM	2139	C	PRO	B	301	70.277	79.847	80.128	1.00	39.67
ATOM	2140	O	PRO	B	301	71.074	80.747	79.832	1.00	36.57
ATOM	2141	N	GLY	B	302	68.976	79.898	79.851	1.00	37.99
ATOM	2142	CA	GLY	B	302	68.380	81.062	79.229	1.00	36.38
ATOM	2143	C	GLY	B	302	68.595	81.239	77.739	1.00	36.81
ATOM	2144	O	GLY	B	302	67.978	82.107	77.132	1.00	39.05
ATOM	2145	N	LYS	B	303	69.468	80.437	77.147	1.00	34.32
ATOM	2146	CA	LYS	B	303	69.738	80.533	75.714	1.00	35.76
ATOM	2147	CB	LYS	B	303	71.033	79.776	75.383	1.00	36.80
ATOM	2148	CG	LYS	B	303	72.279	80.362	76.059	1.00	43.82
ATOM	2149	CD	LYS	B	303	72.582	81.751	75.518	1.00	40.56
ATOM	2150	CE	LYS	B	303	73.782	82.374	76.240	1.00	49.07
ATOM	2151	NZ	LYS	B	303	73.983	83.783	75.811	1.00	48.48
ATOM	2152	C	LYS	B	303	68.587	79.953	74.878	1.00	36.34
ATOM	2153	O	LYS	B	303	67.755	79.207	75.392	1.00	33.61
ATOM	2154	N	TRP	B	304	68.574	80.280	73.585	1.00	34.15
ATOM	2155	CA	TRP	B	304	67.543	79.797	72.672	1.00	34.82
ATOM	2156	CB	TRP	B	304	67.066	80.927	71.775	1.00	36.28
ATOM	2157	CG	TRP	B	304	66.558	82.121	72.502	1.00	36.75
ATOM	2158	CD2	TRP	B	304	66.279	83.398	71.926	1.00	40.46
ATOM	2159	CE2	TRP	B	304	65.772	84.219	72.951	1.00	40.88
ATOM	2160	CE3	TRP	B	304	66.415	83.927	70.637	1.00	42.99
ATOM	2161	CD1	TRP	B	304	66.224	82.212	73.822	1.00	36.91
ATOM	2162	NE1	TRP	B	304	65.745	83.472	74.101	1.00	41.22
ATOM	2163	CZ2	TRP	B	304	65.396	85.549	72.729	1.00	43.00
ATOM	2164	CZ3	TRP	B	304	66.042	85.250	70.416	1.00	45.64
ATOM	2165	CH2	TRP	B	304	65.539	86.043	71.458	1.00	41.61
ATOM	2166	C	TRP	B	304	68.045	78.682	71.775	1.00	36.18
ATOM	2167	O	TRP	B	304	69.238	78.575	71.514	1.00	37.71
ATOM	2168	N	ASN	B	305	67.126	77.851	71.288	1.00	36.50
ATOM	2169	CA	ASN	B	305	67.501	76.765	70.395	1.00	34.17
ATOM	2170	CB	ASN	B	305	67.844	75.496	71.196	1.00	31.04
ATOM	2171	CG	ASN	B	305	67.967	74.229	70.310	1.00	38.85
ATOM	2172	OD1	ASN	B	305	68.692	74.215	69.317	1.00	34.24
ATOM	2173	ND2	ASN	B	305	67.259	73.166	70.694	1.00	32.40
ATOM	2174	C	ASN	B	305	66.343	76.519	69.438	1.00	36.82
ATOM	2175	O	ASN	B	305	65.177	76.641	69.819	1.00	32.18
ATOM	2176	N	ASP	B	306	66.669	76.231	68.180	1.00	37.12
ATOM	2177	CA	ASP	B	306	65.630	75.957	67.197	1.00	32.21

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ATOM	2178	CB	ASP	B	306	66.085	76.341	65.768	1.00	35.45
ATOM	2179	CG	ASP	B	306	67.369	75.625	65.307	1.00	36.51
ATOM	2180	OD1	ASP	B	306	68.164	75.093	66.129	1.00	39.70
ATOM	2181	OD2	ASP	B	306	67.576	75.614	64.068	1.00	42.17
ATOM	2182	C	ASP	B	306	65.279	74.487	67.299	1.00	28.98
ATOM	2183	O	ASP	B	306	66.158	73.628	67.480	1.00	30.73
ATOM	2184	N	GLU	B	307	63.982	74.194	67.222	1.00	33.36
ATOM	2185	CA	GLU	B	307	63.506	72.817	67.338	1.00	30.91
ATOM	2186	CB	GLU	B	307	63.042	72.540	68.773	1.00	32.21
ATOM	2187	CG	GLU	B	307	64.148	72.266	69.766	1.00	39.90
ATOM	2188	CD	GLU	B	307	64.486	70.794	69.854	1.00	41.66
ATOM	2189	OE1	GLU	B	307	63.982	70.118	70.786	1.00	41.22
ATOM	2190	OE2	GLU	B	307	65.246	70.310	68.979	1.00	38.35
ATOM	2191	C	GLU	B	307	62.318	72.589	66.403	1.00	30.72
ATOM	2192	O	GLU	B	307	61.598	73.530	66.054	1.00	32.63
ATOM	2193	N	HIS	B	308	62.100	71.340	66.025	1.00	35.27
ATOM	2194	CA	HIS	B	308	60.963	71.018	65.171	1.00	33.83
ATOM	2195	CB	HIS	B	308	60.931	69.535	64.850	1.00	35.00
ATOM	2196	CG	HIS	B	308	59.919	69.183	63.803	1.00	38.24
ATOM	2197	CD2	HIS	B	308	58.566	69.216	63.831	1.00	35.88
ATOM	2198	ND1	HIS	B	308	60.269	68.833	62.516	1.00	42.50
ATOM	2199	CE1	HIS	B	308	59.171	68.671	61.795	1.00	37.25
ATOM	2200	NE2	HIS	B	308	58.126	68.897	62.568	1.00	39.70
ATOM	2201	C	HIS	B	308	59.693	71.400	65.937	1.00	33.42
ATOM	2202	O	HIS	B	308	59.543	71.069	67.115	1.00	32.57
ATOM	2203	N	CYS	B	309	58.772	72.078	65.267	1.00	34.53
ATOM	2204	CA	CYS	B	309	57.556	72.528	65.936	1.00	31.18
ATOM	2205	C	CYS	B	309	56.633	71.431	66.458	1.00	33.11
ATOM	2206	O	CYS	B	309	55.719	71.718	67.240	1.00	32.62
ATOM	2207	CB	CYS	B	309	56.785	73.481	65.029	1.00	30.25
ATOM	2208	SG	CYS	B	309	57.773	74.926	64.454	1.00	50.53
ATOM	2209	N	LEU	B	310	56.875	70.183	66.063	1.00	27.97
ATOM	2210	CA	LEU	B	310	56.026	69.106	66.553	1.00	30.95
ATOM	2211	CB	LEU	B	310	55.626	68.164	65.413	1.00	29.20
ATOM	2212	CG	LEU	B	310	54.798	68.920	64.353	1.00	32.97
ATOM	2213	CD1	LEU	B	310	54.370	67.950	63.246	1.00	36.21
ATOM	2214	CD2	LEU	B	310	53.574	69.552	64.998	1.00	31.78
ATOM	2215	C	LEU	B	310	56.611	68.352	67.745	1.00	29.73
ATOM	2216	O	LEU	B	310	56.101	67.311	68.141	1.00	29.24
ATOM	2217	N	LYS	B	311	57.696	68.870	68.321	1.00	31.17
ATOM	2218	CA	LYS	B	311	58.205	68.272	69.553	1.00	30.35
ATOM	2219	CB	LYS	B	311	59.637	68.739	69.882	1.00	33.35
ATOM	2220	CG	LYS	B	311	60.707	68.245	68.886	1.00	41.53
ATOM	2221	CD	LYS	B	311	61.661	67.214	69.446	1.00	48.92
ATOM	2222	CE	LYS	B	311	62.509	67.787	70.561	1.00	48.26
ATOM	2223	NZ	LYS	B	311	63.861	67.182	70.677	1.00	49.28
ATOM	2224	C	LYS	B	311	57.244	68.867	70.588	1.00	32.46
ATOM	2225	O	LYS	B	311	56.671	69.927	70.349	1.00	33.00
ATOM	2226	N	LYS	B	312	57.053	68.195	71.722	1.00	27.96
ATOM	2227	CA	LYS	B	312	56.186	68.711	72.780	1.00	30.53
ATOM	2228	CB	LYS	B	312	55.371	67.576	73.427	1.00	30.72
ATOM	2229	CG	LYS	B	312	54.501	66.833	72.399	1.00	38.14
ATOM	2230	CD	LYS	B	312	54.084	65.444	72.869	1.00	43.47
ATOM	2231	CE	LYS	B	312	53.176	65.512	74.083	1.00	43.60
ATOM	2232	NZ	LYS	B	312	52.592	64.155	74.364	1.00	43.06
ATOM	2233	C	LYS	B	312	57.046	69.378	73.852	1.00	29.55
ATOM	2234	O	LYS	B	312	58.006	68.787	74.335	1.00	28.91
ATOM	2235	N	LYS	B	313	56.666	70.594	74.223	1.00	30.33
ATOM	2236	CA	LYS	B	313	57.362	71.366	75.252	1.00	30.98
ATOM	2237	CB	LYS	B	313	58.373	72.321	74.604	1.00	24.59
ATOM	2238	CG	LYS	B	313	59.342	71.627	73.655	1.00	28.06
ATOM	2239	CD	LYS	B	313	60.421	72.588	73.138	1.00	30.64
ATOM	2240	CE	LYS	B	313	61.446	71.842	72.279	1.00	29.60
ATOM	2241	NZ	LYS	B	313	62.218	70.832	73.079	1.00	30.08
ATOM	2242	C	LYS	B	313	56.306	72.164	75.997	1.00	30.22
ATOM	2243	O	LYS	B	313	55.132	72.221	75.588	1.00	30.91

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ATOM	2244	N	HIS	B	314	56.706	72.795	77.094	1.00	28.85
ATOM	2245	CA	HIS	B	314	55.757	73.587	77.861	1.00	27.15
ATOM	2246	CB	HIS	B	314	56.267	73.704	79.291	1.00	28.24
ATOM	2247	CG	HIS	B	314	56.346	72.372	79.978	1.00	32.97
ATOM	2248	CD2	HIS	B	314	57.246	71.366	79.865	1.00	33.92
ATOM	2249	ND1	HIS	B	314	55.364	71.916	80.829	1.00	36.36
ATOM	2250	CE1	HIS	B	314	55.658	70.684	81.212	1.00	34.84
ATOM	2251	NE2	HIS	B	314	56.794	70.327	80.639	1.00	34.89
ATOM	2252	C	HIS	B	314	55.528	74.955	77.278	1.00	28.48
ATOM	2253	O	HIS	B	314	56.457	75.589	76.798	1.00	31.76
ATOM	2254	N	ALA	B	315	54.290	75.427	77.354	1.00	23.77
ATOM	2255	CA	ALA	B	315	53.952	76.742	76.839	1.00	29.01
ATOM	2256	CB	ALA	B	315	52.460	76.831	76.611	1.00	28.72
ATOM	2257	C	ALA	B	315	54.390	77.779	77.885	1.00	31.03
ATOM	2258	O	ALA	B	315	54.231	77.544	79.078	1.00	30.81
ATOM	2259	N	LEU	B	316	54.963	78.896	77.432	1.00	27.87
ATOM	2260	CA	LEU	B	316	55.413	79.973	78.329	1.00	29.28
ATOM	2261	CB	LEU	B	316	56.925	80.158	78.203	1.00	25.48
ATOM	2262	CG	LEU	B	316	57.570	81.240	79.077	1.00	29.28
ATOM	2263	CD1	LEU	B	316	57.025	81.137	80.523	1.00	27.99
ATOM	2264	CD2	LEU	B	316	59.067	81.049	79.034	1.00	28.96
ATOM	2265	C	LEU	B	316	54.667	81.194	77.855	1.00	30.60
ATOM	2266	O	LEU	B	316	54.955	81.736	76.775	1.00	33.35
ATOM	2267	N	CYS	B	317	53.708	81.636	78.661	1.00	27.10
ATOM	2268	CA	CYS	B	317	52.836	82.741	78.300	1.00	29.15
ATOM	2269	C	CYS	B	317	52.901	83.980	79.193	1.00	31.02
ATOM	2270	O	CYS	B	317	53.600	84.000	80.194	1.00	29.64
ATOM	2271	CB	CYS	B	317	51.391	82.257	78.369	1.00	35.29
ATOM	2272	SG	CYS	B	317	51.044	80.506	77.961	1.00	39.34
ATOM	2273	N	TYR	B	318	52.126	84.996	78.829	1.00	28.04
ATOM	2274	CA	TYR	B	318	52.037	86.203	79.636	1.00	30.63
ATOM	2275	CB	TYR	B	318	53.078	87.241	79.185	1.00	27.46
ATOM	2276	CG	TYR	B	318	52.702	87.936	77.883	1.00	29.33
ATOM	2277	CD1	TYR	B	318	52.987	87.345	76.647	1.00	33.37
ATOM	2278	CE1	TYR	B	318	52.604	87.954	75.455	1.00	29.62
ATOM	2279	CD2	TYR	B	318	52.019	89.152	77.889	1.00	35.59
ATOM	2280	CE2	TYR	B	318	51.620	89.772	76.694	1.00	36.03
ATOM	2281	CZ	TYR	B	318	51.920	89.162	75.485	1.00	36.52
ATOM	2282	OH	TYR	B	318	51.541	89.750	74.304	1.00	35.51
ATOM	2283	C	TYR	B	318	50.672	86.866	79.547	1.00	33.45
ATOM	2284	O	TYR	B	318	49.887	86.601	78.639	1.00	31.91
ATOM	2285	N	THR	B	319	50.407	87.747	80.511	1.00	31.35
ATOM	2286	CA	THR	B	319	49.223	88.591	80.517	1.00	31.39
ATOM	2287	CB	THR	B	319	48.141	88.140	81.526	1.00	35.75
ATOM	2288	OG1	THR	B	319	48.745	87.895	82.810	1.00	33.08
ATOM	2289	CG2	THR	B	319	47.438	86.860	81.026	1.00	36.42
ATOM	2290	C	THR	B	319	49.758	89.953	80.994	1.00	37.12
ATOM	2291	O	THR	B	319	50.811	90.024	81.634	1.00	29.26
ATOM	2292	N	ALA	B	320	49.057	91.027	80.664	1.00	32.63
ATOM	2293	CA	ALA	B	320	49.456	92.346	81.133	1.00	38.90
ATOM	2294	CB	ALA	B	320	48.642	93.401	80.436	1.00	33.99
ATOM	2295	C	ALA	B	320	49.136	92.333	82.631	1.00	38.98
ATOM	2296	O	ALA	B	320	48.161	91.693	83.058	1.00	36.83
ATOM	2297	N	SER	B	321	49.964	92.997	83.435	1.00	41.95
ATOM	2298	CA	SER	B	321	49.724	93.059	84.883	1.00	42.77
ATOM	2299	CB	SER	B	321	51.030	93.315	85.636	1.00	43.20
ATOM	2300	OG	SER	B	321	51.953	92.260	85.466	1.00	36.21
ATOM	2301	C	SER	B	321	48.752	94.203	85.162	1.00	44.95
ATOM	2302	O	SER	B	321	47.914	94.132	86.069	1.00	47.84
ATOM	2303	N	CYS	B	322	48.872	95.262	84.373	1.00	40.73
ATOM	2304	CA	CYS	B	322	48.005	96.432	84.514	1.00	48.52
ATOM	2305	C	CYS	B	322	46.532	96.111	84.267	1.00	52.55
ATOM	2306	O	CYS	B	322	46.207	95.362	83.340	1.00	48.90
ATOM	2307	CB	CYS	B	322	48.432	97.516	83.530	1.00	44.85
ATOM	2308	SG	CYS	B	322	50.054	98.249	83.918	1.00	46.91
ATOM	2309	N	GLN	B	323	45.653	96.680	85.092	1.00	56.96

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ATOM	2310	CA	GLN	B	323	44.204	96.489	84.950	1.00	62.09
ATOM	2311	CB	GLN	B	323	43.581	95.975	86.252	1.00	61.89
ATOM	2312	CG	GLN	B	323	44.365	94.871	86.941	1.00	66.42
ATOM	2313	CD	GLN	B	323	44.249	93.525	86.252	1.00	70.88
ATOM	2314	OE1	GLN	B	323	45.114	92.660	86.416	1.00	74.93
ATOM	2315	NE2	GLN	B	323	43.173	93.330	85.495	1.00	68.83
ATOM	2316	C	GLN	B	323	43.603	97.853	84.622	1.00	64.68
ATOM	2317	O	GLN	B	323	44.302	98.868	84.642	1.00	63.36
ATOM	2318	N	ASP	B	324	42.308	97.883	84.328	1.00	66.49
ATOM	2319	CA	ASP	B	324	41.638	99.139	84.000	1.00	67.01
ATOM	2320	CB	ASP	B	324	40.197	98.871	83.561	1.00	69.96
ATOM	2321	CG	ASP	B	324	39.382	100.147	83.451	1.00	74.41
ATOM	2322	OD1	ASP	B	324	39.748	101.013	82.624	1.00	72.74
ATOM	2323	OD2	ASP	B	324	38.385	100.289	84.200	1.00	74.75
ATOM	2324	C	ASP	B	324	41.630	100.131	85.169	1.00	63.92
ATOM	2325	O	ASP	B	324	41.823	101.334	84.980	1.00	62.91
ATOM	2326	N	ALA	B	325	41.404	99.620	86.375	1.00	65.40
ATOM	2327	CA	ALA	B	325	41.355	100.460	87.567	1.00	64.15
ATOM	2328	CB	ALA	B	325	40.318	99.902	88.549	1.00	62.44
ATOM	2329	C	ALA	B	325	42.725	100.587	88.245	1.00	63.41
ATOM	2330	O	ALA	B	325	42.827	101.083	89.372	1.00	63.08
ATOM	2331	N	SER	B	326	43.779	100.135	87.565	1.00	60.20
ATOM	2332	CA	SER	B	326	45.124	100.238	88.118	1.00	53.67
ATOM	2333	CB	SER	B	326	46.148	99.516	87.235	1.00	57.29
ATOM	2334	OG	SER	B	326	46.091	98.112	87.425	1.00	59.95
ATOM	2335	C	SER	B	326	45.503	101.710	88.235	1.00	47.65
ATOM	2336	O	SER	B	326	45.078	102.550	87.432	1.00	45.27
ATOM	2337	N	CYS	B	327	46.298	102.010	89.252	1.00	43.72
ATOM	2338	CA	CYS	B	327	46.751	103.365	89.511	1.00	43.64
ATOM	2339	C	CYS	B	327	45.601	104.342	89.731	1.00	42.94
ATOM	2340	O	CYS	B	327	45.748	105.547	89.515	1.00	41.36
ATOM	2341	CB	CYS	B	327	47.650	103.845	88.375	1.00	42.89
ATOM	2342	SG	CYS	B	327	48.979	102.649	88.018	1.00	43.31
ATOM	2343	N	SER	B	328	44.461	103.810	90.163	1.00	42.40
ATOM	2344	CA	SER	B	328	43.289	104.628	90.471	1.00	44.18
ATOM	2345	CB	SER	B	328	43.552	105.413	91.771	1.00	41.72
ATOM	2346	OG	SER	B	328	44.085	104.574	92.796	1.00	40.29
ATOM	2347	C	SER	B	328	42.956	105.608	89.356	1.00	47.01
ATOM	2348	O	SER	B	328	42.342	106.642	89.593	1.00	51.12
ATOM	2349	N	LYS	B	329	43.356	105.285	88.133	1.00	49.34
ATOM	2350	CA	LYS	B	329	43.118	106.178	87.006	1.00	47.98
ATOM	2351	CB	LYS	B	329	41.617	106.221	86.662	1.00	57.37
ATOM	2352	CG	LYS	B	329	41.016	104.818	86.475	1.00	60.15
ATOM	2353	CD	LYS	B	329	39.641	104.816	85.812	1.00	66.02
ATOM	2354	CE	LYS	B	329	39.737	105.034	84.302	1.00	69.70
ATOM	2355	NZ	LYS	B	329	38.425	104.854	83.597	1.00	67.82
ATOM	2356	C	LYS	B	329	43.648	107.569	87.343	1.00	45.67
ATOM	2357	O	LYS	B	329	43.188	108.583	86.815	1.00	40.65
ATOM	2358	N	GLN	B	330	44.644	107.612	88.220	1.00	39.28
ATOM	2359	CA	GLN	B	330	45.234	108.881	88.617	1.00	41.85
ATOM	2360	CB	GLN	B	330	44.925	109.150	90.094	1.00	43.67
ATOM	2361	CG	GLN	B	330	43.626	109.922	90.278	1.00	48.97
ATOM	2362	CD	GLN	B	330	42.923	109.644	91.605	1.00	56.07
ATOM	2363	OE1	GLN	B	330	43.544	109.215	92.587	1.00	45.34
ATOM	2364	NE2	GLN	B	330	41.616	109.903	91.640	1.00	52.15
ATOM	2365	C	GLN	B	330	46.731	108.874	88.349	1.00	37.57
ATOM	2366	O	GLN	B	330	47.487	109.662	88.904	1.00	35.99
ATOM	2367	N	GLY	B	331	47.139	107.957	87.479	1.00	36.58
ATOM	2368	CA	GLY	B	331	48.528	107.838	87.092	1.00	34.55
ATOM	2369	C	GLY	B	331	48.584	106.901	85.897	1.00	36.86
ATOM	2370	O	GLY	B	331	47.563	106.371	85.483	1.00	38.19
ATOM	2371	N	GLU	B	332	49.765	106.695	85.339	1.00	35.69
ATOM	2372	CA	GLU	B	332	49.900	105.795	84.201	1.00	37.09
ATOM	2373	CB	GLU	B	332	50.852	106.391	83.164	1.00	42.99
ATOM	2374	CG	GLU	B	332	50.959	105.548	81.889	1.00	51.68
ATOM	2375	CD	GLU	B	332	51.865	106.173	80.834	1.00	58.74

ATOM	2376	OE1	GLU	B	332	51.931	107.418	80.769	1.00	60.52
ATOM	2377	OE2	GLU	B	332	52.502	105.419	80.061	1.00	65.76
ATOM	2378	C	GLU	B	332	50.469	104.484	84.726	1.00	38.25
ATOM	2379	O	GLU	B	332	51.449	104.487	85.474	1.00	34.50
ATOM	2380	N	CYS	B	333	49.863	103.365	84.342	1.00	36.61
ATOM	2381	CA	CYS	B	333	50.340	102.070	84.797	1.00	34.76
ATOM	2382	C	CYS	B	333	51.475	101.594	83.880	1.00	34.88
ATOM	2383	O	CYS	B	333	51.305	101.526	82.672	1.00	37.02
ATOM	2384	CB	CYS	B	333	49.188	101.065	84.777	1.00	39.01
ATOM	2385	SG	CYS	B	333	49.629	99.459	85.512	1.00	44.78
ATOM	2386	N	LEU	B	334	52.627	101.264	84.446	1.00	32.45
ATOM	2387	CA	LEU	B	334	53.766	100.816	83.639	1.00	33.07
ATOM	2388	CB	LEU	B	334	55.009	101.636	83.988	1.00	34.47
ATOM	2389	CG	LEU	B	334	54.897	103.146	83.798	1.00	39.15
ATOM	2390	CD1	LEU	B	334	56.199	103.817	84.227	1.00	44.62
ATOM	2391	CD2	LEU	B	334	54.591	103.429	82.342	1.00	40.53
ATOM	2392	C	LEU	B	334	54.072	99.343	83.878	1.00	34.88
ATOM	2393	O	LEU	B	334	54.317	98.942	85.022	1.00	31.08
ATOM	2394	N	GLU	B	335	54.064	98.534	82.814	1.00	32.17
ATOM	2395	CA	GLU	B	335	54.356	97.124	82.976	1.00	31.98
ATOM	2396	CB	GLU	B	335	54.082	96.348	81.678	1.00	36.80
ATOM	2397	CG	GLU	B	335	52.648	96.300	81.194	1.00	30.67
ATOM	2398	CD	GLU	B	335	51.725	95.489	82.085	1.00	35.10
ATOM	2399	OE1	GLU	B	335	52.192	94.548	82.762	1.00	36.49
ATOM	2400	OE2	GLU	B	335	50.513	95.788	82.085	1.00	40.92
ATOM	2401	C	GLU	B	335	55.823	96.921	83.347	1.00	31.21
ATOM	2402	O	GLU	B	335	56.711	97.590	82.797	1.00	34.27
ATOM	2403	N	THR	B	336	56.080	96.007	84.291	1.00	32.04
ATOM	2404	CA	THR	B	336	57.453	95.668	84.674	1.00	30.02
ATOM	2405	CB	THR	B	336	57.820	96.109	86.108	1.00	34.22
ATOM	2406	OG1	THR	B	336	57.021	95.384	87.049	1.00	36.97
ATOM	2407	CG2	THR	B	336	57.608	97.616	86.281	1.00	35.02
ATOM	2408	C	THR	B	336	57.601	94.142	84.606	1.00	37.28
ATOM	2409	O	THR	B	336	56.643	93.433	84.305	1.00	33.05
ATOM	2410	N	ILE	B	337	58.802	93.637	84.867	1.00	36.66
ATOM	2411	CA	ILE	B	337	59.005	92.205	84.837	1.00	40.68
ATOM	2412	CB	ILE	B	337	60.493	91.846	84.834	1.00	41.82
ATOM	2413	CG2	ILE	B	337	60.656	90.330	84.911	1.00	39.09
ATOM	2414	CG1	ILE	B	337	61.157	92.400	83.572	1.00	42.25
ATOM	2415	CD1	ILE	B	337	62.682	92.268	83.566	1.00	40.57
ATOM	2416	C	ILE	B	337	58.355	91.567	86.046	1.00	43.41
ATOM	2417	O	ILE	B	337	58.892	91.633	87.153	1.00	39.39
ATOM	2418	N	GLY	B	338	57.185	90.971	85.829	1.00	40.61
ATOM	2419	CA	GLY	B	338	56.468	90.299	86.902	1.00	40.41
ATOM	2420	C	GLY	B	338	55.466	91.147	87.653	1.00	41.55
ATOM	2421	O	GLY	B	338	54.746	90.642	88.522	1.00	41.30
ATOM	2422	N	ASN	B	339	55.370	92.429	87.318	1.00	35.80
ATOM	2423	CA	ASN	B	339	54.457	93.291	88.060	1.00	37.28
ATOM	2424	CB	ASN	B	339	55.137	93.667	89.388	1.00	40.04
ATOM	2425	CG	ASN	B	339	54.150	94.052	90.501	1.00	38.70
ATOM	2426	OD1	ASN	B	339	53.019	94.467	90.252	1.00	44.25
ATOM	2427	ND2	ASN	B	339	54.608	93.936	91.743	1.00	46.77
ATOM	2428	C	ASN	B	339	54.175	94.542	87.242	1.00	38.95
ATOM	2429	O	ASN	B	339	54.181	94.513	86.012	1.00	32.84
ATOM	2430	N	TYR	B	340	53.902	95.640	87.931	1.00	36.85
ATOM	2431	CA	TYR	B	340	53.683	96.926	87.265	1.00	35.48
ATOM	2432	CB	TYR	B	340	52.244	97.079	86.778	1.00	34.03
ATOM	2433	CG	TYR	B	340	51.195	97.170	87.872	1.00	44.34
ATOM	2434	CD1	TYR	B	340	50.548	96.029	88.334	1.00	47.50
ATOM	2435	CE1	TYR	B	340	49.544	96.104	89.300	1.00	55.97
ATOM	2436	CD2	TYR	B	340	50.824	98.406	88.413	1.00	46.81
ATOM	2437	CE2	TYR	B	340	49.826	98.500	89.384	1.00	52.65
ATOM	2438	CZ	TYR	B	340	49.185	97.341	89.819	1.00	57.14
ATOM	2439	OH	TYR	B	340	48.176	97.414	90.750	1.00	57.13
ATOM	2440	C	TYR	B	340	53.974	98.001	88.294	1.00	36.35
ATOM	2441	O	TYR	B	340	54.099	97.695	89.478	1.00	33.53

ATOM	2442	N	THR	B	341	54.132	99.238	87.841	1.00	34.19
ATOM	2443	CA	THR	B	341	54.343	100.359	88.748	1.00	34.98
ATOM	2444	CB	THR	B	341	55.796	100.891	88.722	1.00	37.58
ATOM	2445	OG1	THR	B	341	56.098	101.419	87.430	1.00	40.24
ATOM	2446	CG2	THR	B	341	56.769	99.786	89.037	1.00	44.03
ATOM	2447	C	THR	B	341	53.411	101.460	88.275	1.00	33.90
ATOM	2448	O	THR	B	341	52.995	101.465	87.113	1.00	33.80
ATOM	2449	N	CYS	B	342	53.087	102.390	89.168	1.00	29.94
ATOM	2450	CA	CYS	B	342	52.201	103.493	88.844	1.00	33.56
ATOM	2451	C	CYS	B	342	52.967	104.812	88.782	1.00	40.30
ATOM	2452	O	CYS	B	342	53.656	105.170	89.730	1.00	37.67
ATOM	2453	CB	CYS	B	342	51.098	103.591	89.902	1.00	35.02
ATOM	2454	SG	CYS	B	342	49.868	102.227	89.813	1.00	39.69
ATOM	2455	N	SER	B	343	52.862	105.524	87.666	1.00	35.78
ATOM	2456	CA	SER	B	343	53.536	106.822	87.529	1.00	38.43
ATOM	2457	CB	SER	B	343	54.126	106.960	86.124	1.00	41.48
ATOM	2458	OG	SER	B	343	54.819	108.178	86.009	1.00	46.68
ATOM	2459	C	SER	B	343	52.408	107.828	87.759	1.00	32.93
ATOM	2460	O	SER	B	343	51.571	108.065	86.886	1.00	34.89
ATOM	2461	N	CYS	B	344	52.365	108.428	88.936	1.00	33.43
ATOM	2462	CA	CYS	B	344	51.226	109.287	89.214	1.00	37.21
ATOM	2463	C	CYS	B	344	51.188	110.615	88.486	1.00	37.31
ATOM	2464	O	CYS	B	344	52.223	111.204	88.173	1.00	38.03
ATOM	2465	CB	CYS	B	344	51.094	109.509	90.721	1.00	41.52
ATOM	2466	SG	CYS	B	344	50.987	107.954	91.690	1.00	43.05
ATOM	2467	N	TYR	B	345	49.977	111.073	88.196	1.00	36.54
ATOM	2468	CA	TYR	B	345	49.823	112.367	87.551	1.00	42.60
ATOM	2469	CB	TYR	B	345	48.421	112.518	86.977	1.00	44.05
ATOM	2470	CG	TYR	B	345	48.063	111.481	85.942	1.00	45.92
ATOM	2471	CD1	TYR	B	345	48.970	111.114	84.942	1.00	45.83
ATOM	2472	CE1	TYR	B	345	48.627	110.177	83.965	1.00	46.48
ATOM	2473	CD2	TYR	B	345	46.801	110.883	85.940	1.00	51.79
ATOM	2474	CE2	TYR	B	345	46.446	109.947	84.968	1.00	49.65
ATOM	2475	CZ	TYR	B	345	47.362	109.598	83.984	1.00	50.84
ATOM	2476	OH	TYR	B	345	47.002	108.669	83.033	1.00	57.29
ATOM	2477	C	TYR	B	345	50.039	113.421	88.640	1.00	49.76
ATOM	2478	O	TYR	B	345	49.880	113.132	89.837	1.00	44.49
ATOM	2479	N	PRO	B	346	50.400	114.657	88.247	1.00	53.57
ATOM	2480	CD	PRO	B	346	50.744	115.124	86.888	1.00	55.61
ATOM	2481	CA	PRO	B	346	50.621	115.720	89.234	1.00	55.62
ATOM	2482	CB	PRO	B	346	50.855	116.951	88.357	1.00	58.92
ATOM	2483	CG	PRO	B	346	51.569	116.371	87.168	1.00	56.03
ATOM	2484	C	PRO	B	346	49.423	115.876	90.177	1.00	54.25
ATOM	2485	O	PRO	B	346	48.265	115.824	89.749	1.00	57.32
ATOM	2486	N	GLY	B	347	49.706	116.039	91.467	1.00	57.02
ATOM	2487	CA	GLY	B	347	48.637	116.194	92.437	1.00	51.52
ATOM	2488	C	GLY	B	347	48.162	114.884	93.043	1.00	53.20
ATOM	2489	O	GLY	B	347	47.201	114.867	93.821	1.00	50.37
ATOM	2490	N	PHE	B	348	48.813	113.779	92.687	1.00	45.31
ATOM	2491	CA	PHE	B	348	48.428	112.483	93.240	1.00	39.25
ATOM	2492	CB	PHE	B	348	47.667	111.654	92.204	1.00	40.64
ATOM	2493	CG	PHE	B	348	46.385	112.290	91.735	1.00	44.22
ATOM	2494	CD1	PHE	B	348	45.223	112.184	92.488	1.00	44.99
ATOM	2495	CD2	PHE	B	348	46.344	112.982	90.529	1.00	44.77
ATOM	2496	CE1	PHE	B	348	44.030	112.759	92.047	1.00	49.01
ATOM	2497	CE2	PHE	B	348	45.149	113.562	90.077	1.00	50.44
ATOM	2498	CZ	PHE	B	348	43.993	113.447	90.840	1.00	42.37
ATOM	2499	C	PHE	B	348	49.653	111.706	93.661	1.00	35.99
ATOM	2500	O	PHE	B	348	50.725	111.871	93.086	1.00	34.40
ATOM	2501	N	TYR	B	349	49.505	110.845	94.662	1.00	36.20
ATOM	2502	CA	TYR	B	349	50.643	110.039	95.077	1.00	34.62
ATOM	2503	CB	TYR	B	349	51.580	110.855	95.993	1.00	37.93
ATOM	2504	CG	TYR	B	349	50.981	111.213	97.347	1.00	38.11
ATOM	2505	CD1	TYR	B	349	50.096	112.281	97.483	1.00	35.69
ATOM	2506	CE1	TYR	B	349	49.517	112.600	98.729	1.00	37.26
ATOM	2507	CD2	TYR	B	349	51.284	110.452	98.485	1.00	34.47

ATOM	2508	CE2	TYR	B	349	50.712	110.749	99.729	1.00	36.31
ATOM	2509	CZ	TYR	B	349	49.832	111.827	99.845	1.00	40.42
ATOM	2510	OH	TYR	B	349	49.285	112.132	101.071	1.00	35.13
ATOM	2511	C	TYR	B	349	50.187	108.763	95.770	1.00	32.11
ATOM	2512	O	TYR	B	349	48.991	108.576	96.053	1.00	37.80
ATOM	2513	N	GLY	B	350	51.135	107.873	96.030	1.00	31.43
ATOM	2514	CA	GLY	B	350	50.807	106.624	96.693	1.00	33.79
ATOM	2515	C	GLY	B	350	51.084	105.465	95.761	1.00	36.80
ATOM	2516	O	GLY	B	350	51.201	105.665	94.556	1.00	37.97
ATOM	2517	N	PRO	B	351	51.173	104.237	96.281	1.00	41.39
ATOM	2518	CD	PRO	B	351	51.024	103.834	97.689	1.00	36.79
ATOM	2519	CA	PRO	B	351	51.446	103.075	95.428	1.00	39.92
ATOM	2520	CB	PRO	B	351	51.511	101.921	96.433	1.00	42.06
ATOM	2521	CG	PRO	B	351	50.634	102.384	97.560	1.00	44.05
ATOM	2522	C	PRO	B	351	50.460	102.837	94.280	1.00	39.59
ATOM	2523	O	PRO	B	351	50.818	102.247	93.270	1.00	39.36
ATOM	2524	N	GLU	B	352	49.226	103.303	94.428	1.00	35.02
ATOM	2525	CA	GLU	B	352	48.216	103.166	93.382	1.00	35.66
ATOM	2526	CB	GLU	B	352	47.056	102.264	93.844	1.00	44.21
ATOM	2527	CG	GLU	B	352	47.361	100.760	93.959	1.00	45.13
ATOM	2528	CD	GLU	B	352	47.674	100.069	92.620	1.00	49.25
ATOM	2529	OE1	GLU	B	352	47.044	100.395	91.587	1.00	54.21
ATOM	2530	OE2	GLU	B	352	48.545	99.174	92.611	1.00	51.36
ATOM	2531	C	GLU	B	352	47.668	104.559	93.060	1.00	36.80
ATOM	2532	O	GLU	B	352	46.551	104.684	92.585	1.00	34.53
ATOM	2533	N	CYS	B	353	48.471	105.593	93.328	1.00	35.27
ATOM	2534	CA	CYS	B	353	48.093	106.986	93.094	1.00	38.17
ATOM	2535	C	CYS	B	353	46.756	107.331	93.734	1.00	37.10
ATOM	2536	O	CYS	B	353	46.025	108.184	93.235	1.00	38.11
ATOM	2537	CB	CYS	B	353	48.028	107.276	91.589	1.00	35.20
ATOM	2538	SG	CYS	B	353	49.557	106.764	90.755	1.00	35.99
ATOM	2539	N	GLU	B	354	46.456	106.689	94.853	1.00	35.92
ATOM	2540	CA	GLU	B	354	45.180	106.900	95.528	1.00	39.43
ATOM	2541	CB	GLU	B	354	44.846	105.672	96.385	1.00	43.31
ATOM	2542	CG	GLU	B	354	45.819	105.426	97.551	1.00	45.27
ATOM	2543	CD	GLU	B	354	47.040	104.576	97.190	1.00	52.27
ATOM	2544	OE1	GLU	B	354	47.796	104.916	96.247	1.00	45.09
ATOM	2545	OE2	GLU	B	354	47.250	103.556	97.882	1.00	54.72
ATOM	2546	C	GLU	B	354	45.071	108.157	96.400	1.00	41.89
ATOM	2547	O	GLU	B	354	43.973	108.551	96.785	1.00	41.52
ATOM	2548	N	TYR	B	355	46.190	108.788	96.719	1.00	38.76
ATOM	2549	CA	TYR	B	355	46.136	109.979	97.565	1.00	39.82
ATOM	2550	CB	TYR	B	355	47.255	109.918	98.602	1.00	36.64
ATOM	2551	CG	TYR	B	355	47.114	108.760	99.561	1.00	42.97
ATOM	2552	CD1	TYR	B	355	46.112	108.757	100.538	1.00	47.57
ATOM	2553	CE1	TYR	B	355	45.956	107.670	101.405	1.00	54.99
ATOM	2554	CD2	TYR	B	355	47.956	107.651	99.474	1.00	45.41
ATOM	2555	CE2	TYR	B	355	47.807	106.559	100.334	1.00	50.44
ATOM	2556	CZ	TYR	B	355	46.809	106.575	101.295	1.00	55.52
ATOM	2557	OH	TYR	B	355	46.671	105.501	102.148	1.00	64.41
ATOM	2558	C	TYR	B	355	46.231	111.278	96.775	1.00	43.35
ATOM	2559	O	TYR	B	355	46.923	111.358	95.756	1.00	39.76
ATOM	2560	N	VAL	B	356	45.529	112.297	97.255	1.00	45.32
ATOM	2561	CA	VAL	B	356	45.538	113.594	96.607	1.00	46.30
ATOM	2562	CB	VAL	B	356	44.122	114.152	96.453	1.00	50.36
ATOM	2563	CG1	VAL	B	356	44.153	115.395	95.585	1.00	54.23
ATOM	2564	CG2	VAL	B	356	43.211	113.102	95.873	1.00	53.07
ATOM	2565	C	VAL	B	356	46.326	114.549	97.479	1.00	48.19
ATOM	2566	O	VAL	B	356	46.161	114.562	98.706	1.00	44.80
ATOM	2567	N	ALA	B	357	47.186	115.334	96.844	1.00	43.33
ATOM	2568	CA	ALA	B	357	48.003	116.315	97.534	1.00	51.48
ATOM	2569	CB	ALA	B	357	49.386	116.372	96.900	1.00	51.30
ATOM	2570	C	ALA	B	357	47.321	117.683	97.443	1.00	57.22
ATOM	2571	O	ALA	B	357	47.218	118.410	98.436	1.00	60.90
ATOM	2572	N	ALA	C	6	58.393	60.432	75.730	1.00	58.67
ATOM	2573	CA	ALA	C	6	57.261	61.186	76.260	1.00	51.68

ATOM	2574	CB	ALA	C	6	57.497	61.535	77.740	1.00	55.73
ATOM	2575	C	ALA	C	6	57.041	62.471	75.456	1.00	50.03
ATOM	2576	O	ALA	C	6	55.917	62.956	75.346	1.00	48.96
ATOM	2577	N	TYS	C	7	58.104	63.027	74.886	1.00	39.73
ATOM	2578	CA	TYS	C	7	57.921	64.265	74.143	1.00	36.98
ATOM	2579	CB	TYS	C	7	58.905	65.388	74.576	1.00	37.30
ATOM	2580	CG	TYS	C	7	58.901	65.525	76.081	1.00	38.85
ATOM	2581	CD1	TYS	C	7	60.022	65.130	76.877	1.00	44.53
ATOM	2582	CE1	TYS	C	7	59.932	65.180	78.303	1.00	43.96
ATOM	2583	CD2	TYS	C	7	57.746	66.024	76.724	1.00	38.49
ATOM	2584	CE2	TYS	C	7	57.668	66.076	78.135	1.00	37.88
ATOM	2585	CZ	TYS	C	7	58.744	65.617	78.916	1.00	33.91
ATOM	2586	C	TYS	C	7	58.033	64.108	72.637	1.00	38.44
ATOM	2587	OH	TYS	C	7	58.632	65.529	80.287	1.00	40.89
ATOM	2588	S1	TYS	C	7	58.794	66.943	81.013	1.00	42.20
ATOM	2589	O1	TYS	C	7	59.022	66.642	82.453	1.00	43.79
ATOM	2590	O2	TYS	C	7	57.542	67.709	80.854	1.00	41.94
ATOM	2591	O3	TYS	C	7	59.938	67.696	80.462	1.00	38.00
ATOM	2592	O	TYS	C	7	57.993	65.098	71.903	1.00	34.01
ATOM	2593	N	LEU	C	8	58.264	62.874	72.197	1.00	39.94
ATOM	2594	CA	LEU	C	8	58.459	62.574	70.787	1.00	39.60
ATOM	2595	CB	LEU	C	8	59.845	61.959	70.580	1.00	43.60
ATOM	2596	CG	LEU	C	8	61.077	62.701	71.109	1.00	49.75
ATOM	2597	CD1	LEU	C	8	62.301	61.807	70.957	1.00	54.06
ATOM	2598	CD2	LEU	C	8	61.276	63.991	70.358	1.00	48.92
ATOM	2599	C	LEU	C	8	57.403	61.589	70.296	1.00	41.93
ATOM	2600	O	LEU	C	8	57.486	60.414	70.607	1.00	41.91
ATOM	2601	N	ASP	C	9	56.422	62.073	69.538	1.00	35.13
ATOM	2602	CA	ASP	C	9	55.359	61.213	69.019	1.00	35.96
ATOM	2603	CB	ASP	C	9	53.995	61.853	69.262	1.00	32.42
ATOM	2604	CG	ASP	C	9	52.861	60.882	69.026	1.00	38.97
ATOM	2605	OD1	ASP	C	9	53.023	59.992	68.162	1.00	35.67
ATOM	2606	OD2	ASP	C	9	51.819	61.010	69.694	1.00	36.35
ATOM	2607	C	ASP	C	9	55.588	61.050	67.514	1.00	34.50
ATOM	2608	O	ASP	C	9	55.288	61.953	66.727	1.00	31.26
ATOM	2609	N	TYS	C	10	56.078	59.883	67.112	1.00	34.32
ATOM	2610	CA	TYS	C	10	56.389	59.664	65.714	1.00	34.09
ATOM	2611	CB	TYS	C	10	57.385	58.515	65.465	1.00	34.37
ATOM	2612	CG	TYS	C	10	58.677	58.763	66.215	1.00	40.02
ATOM	2613	CD1	TYS	C	10	59.241	57.780	67.084	1.00	47.25
ATOM	2614	CE1	TYS	C	10	60.462	58.038	67.769	1.00	50.76
ATOM	2615	CD2	TYS	C	10	59.364	60.001	66.049	1.00	43.92
ATOM	2616	CE2	TYS	C	10	60.584	60.247	66.732	1.00	45.98
ATOM	2617	CZ	TYS	C	10	61.126	59.270	67.602	1.00	51.36
ATOM	2618	C	TYS	C	10	55.174	59.515	64.781	1.00	39.29
ATOM	2619	OH	TYS	C	10	62.290	59.502	68.346	1.00	49.39
ATOM	2620	S1	TYS	C	10	63.580	59.752	67.446	1.00	50.83
ATOM	2621	O1	TYS	C	10	64.753	59.626	68.366	1.00	57.27
ATOM	2622	O2	TYS	C	10	63.568	61.120	66.852	1.00	55.63
ATOM	2623	O3	TYS	C	10	63.690	58.739	66.346	1.00	58.52
ATOM	2624	O	TYS	C	10	55.314	59.134	63.614	1.00	36.33
ATOM	2625	N	ASP	C	11	53.982	59.727	65.313	1.00	36.69
ATOM	2626	CA	ASP	C	11	52.804	59.737	64.457	1.00	36.86
ATOM	2627	CB	ASP	C	11	51.520	59.513	65.250	1.00	34.85
ATOM	2628	CG	ASP	C	11	51.364	58.084	65.719	1.00	43.54
ATOM	2629	OD1	ASP	C	11	52.051	57.193	65.179	1.00	41.16
ATOM	2630	OD2	ASP	C	11	50.538	57.852	66.620	1.00	46.76
ATOM	2631	C	ASP	C	11	52.754	61.145	63.867	1.00	36.50
ATOM	2632	O	ASP	C	11	52.059	61.385	62.884	1.00	33.31
ATOM	2633	N	PHE	C	12	53.522	62.070	64.462	1.00	34.50
ATOM	2634	CA	PHE	C	12	53.526	63.469	64.013	1.00	32.34
ATOM	2635	CB	PHE	C	12	52.915	64.377	65.088	1.00	33.05
ATOM	2636	CG	PHE	C	12	51.510	64.019	65.461	1.00	31.07
ATOM	2637	CD1	PHE	C	12	51.263	63.126	66.490	1.00	32.38
ATOM	2638	CD2	PHE	C	12	50.438	64.556	64.759	1.00	29.85
ATOM	2639	CE1	PHE	C	12	49.957	62.764	66.822	1.00	32.01

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ATOM	2640	CE2	PHE	C	12	49.119	64.202	65.081	1.00	30.84
ATOM	2641	CZ	PHE	C	12	48.885	63.304	66.117	1.00	28.81
ATOM	2642	C	PHE	C	12	54.908	64.025	63.692	1.00	32.53
ATOM	2643	O	PHE	C	12	55.079	64.767	62.722	1.00	30.81
ATOM	2644	N	LEU	C	13	55.875	63.649	64.520	1.00	31.74
ATOM	2645	CA	LEU	C	13	57.251	64.136	64.414	1.00	33.57
ATOM	2646	CB	LEU	C	13	57.829	64.278	65.825	1.00	30.84
ATOM	2647	CG	LEU	C	13	59.292	64.707	65.979	1.00	37.14
ATOM	2648	CD1	LEU	C	13	59.428	66.193	65.718	1.00	31.45
ATOM	2649	CD2	LEU	C	13	59.753	64.366	67.393	1.00	35.18
ATOM	2650	C	LEU	C	13	58.150	63.204	63.599	1.00	31.82
ATOM	2651	O	LEU	C	13	58.176	61.997	63.822	1.00	35.60
ATOM	2652	N	PRO	C	14	58.883	63.757	62.637	1.00	31.78
ATOM	2653	CD	PRO	C	14	58.799	65.119	62.082	1.00	35.43
ATOM	2654	CA	PRO	C	14	59.764	62.906	61.835	1.00	40.27
ATOM	2655	CB	PRO	C	14	60.261	63.843	60.732	1.00	45.85
ATOM	2656	CG	PRO	C	14	60.078	65.212	61.300	1.00	47.20
ATOM	2657	C	PRO	C	14	60.893	62.321	62.665	1.00	44.16
ATOM	2658	O	PRO	C	14	61.484	63.008	63.509	1.00	39.23
ATOM	2659	N	GLU	C	15	61.155	61.033	62.457	1.00	41.66
ATOM	2660	CA	GLU	C	15	62.240	60.355	63.163	1.00	44.40
ATOM	2661	CB	GLU	C	15	62.214	58.854	62.884	1.00	51.37
ATOM	2662	CG	GLU	C	15	60.987	58.119	63.380	1.00	52.28
ATOM	2663	CD	GLU	C	15	60.995	56.657	62.938	1.00	62.48
ATOM	2664	OE1	GLU	C	15	60.912	56.407	61.709	1.00	62.40
ATOM	2665	OE2	GLU	C	15	61.095	55.766	63.814	1.00	58.74
ATOM	2666	C	GLU	C	15	63.541	60.922	62.626	1.00	41.86
ATOM	2667	O	GLU	C	15	63.588	61.421	61.497	1.00	43.90
ATOM	2668	C1S	SIA	C	16	70.033	69.493	77.476	1.00	50.30
ATOM	2669	O1S	SIA	C	16	69.228	68.674	77.854	1.00	53.91
ATOM	2670	O1T	SIA	C	16	69.867	70.678	77.706	1.00	55.40
ATOM	2671	C2S	SIA	C	16	71.306	69.010	76.668	1.00	49.21
ATOM	2672	C6S	SIA	C	16	71.754	67.051	78.133	1.00	53.17
ATOM	2673	O6S	SIA	C	16	71.523	67.573	76.802	1.00	49.09
ATOM	2674	C3S	SIA	C	16	72.601	69.713	77.172	1.00	48.35
ATOM	2675	C4S	SIA	C	16	72.953	69.237	78.605	1.00	54.10
ATOM	2676	O4S	SIA	C	16	74.187	69.781	79.016	1.00	52.20
ATOM	2677	C5S	SIA	C	16	73.061	67.699	78.676	1.00	54.41
ATOM	2678	N5S	SIA	C	16	73.287	67.321	80.077	1.00	55.83
ATOM	2679	C5U	SIA	C	16	74.381	66.749	80.632	1.00	60.27
ATOM	2680	O5V	SIA	C	16	74.415	66.434	81.817	1.00	66.60
ATOM	2681	C5W	SIA	C	16	75.607	66.493	79.732	1.00	54.51
ATOM	2682	C7S	SIA	C	16	71.766	65.508	77.998	1.00	58.03
ATOM	2683	O7S	SIA	C	16	72.891	65.183	77.215	1.00	53.18
ATOM	2684	C8S	SIA	C	16	70.441	65.005	77.340	1.00	61.85
ATOM	2685	O8S	SIA	C	16	69.309	65.394	78.104	1.00	66.67
ATOM	2686	C9S	SIA	C	16	70.354	63.477	77.197	1.00	65.92
ATOM	2687	O9S	SIA	C	16	69.991	62.976	78.471	1.00	70.75
ATOM	2688	C1G	GAL	C	16	69.428	67.318	72.609	1.00	43.48
ATOM	2689	C2G	GAL	C	16	70.594	67.881	73.440	1.00	46.91
ATOM	2690	C3G	GAL	C	16	70.032	68.711	74.583	1.00	46.75
ATOM	2691	C4G	GAL	C	16	69.046	69.787	74.078	1.00	40.41
ATOM	2692	C5G	GAL	C	16	67.937	69.083	73.266	1.00	39.75
ATOM	2693	C6G	GAL	C	16	66.915	70.064	72.698	1.00	37.64
ATOM	2694	O5G	GAL	C	16	68.552	68.377	72.189	1.00	40.27
ATOM	2695	O2G	GAL	C	16	71.368	66.866	74.047	1.00	45.42
ATOM	2696	O3G	GAL	C	16	71.138	69.314	75.275	1.00	49.71
ATOM	2697	O4G	GAL	C	16	69.790	70.686	73.272	1.00	40.03
ATOM	2698	O6G	GAL	C	16	66.226	70.699	73.739	1.00	40.74
ATOM	2699	C1N	NAG	C	16	69.042	63.545	68.945	1.00	44.29
ATOM	2700	C2N	NAG	C	16	68.617	64.937	68.475	1.00	45.74
ATOM	2701	N2N	NAG	C	16	68.935	65.045	67.050	1.00	38.22
ATOM	2702	C3N	NAG	C	16	69.355	66.020	69.305	1.00	44.99
ATOM	2703	C4N	NAG	C	16	69.109	65.799	70.814	1.00	47.34
ATOM	2704	C5N	NAG	C	16	69.452	64.323	71.198	1.00	45.61
ATOM	2705	C6N	NAG	C	16	69.129	63.904	72.647	1.00	45.83

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ATOM   2706  O1N NAG C  16      68.346  62.596  68.192  1.00 52.37
ATOM   2707  O5N NAG C  16      68.732  63.421  70.339  1.00 49.05
ATOM   2708  O3N NAG C  16      68.864  67.293  68.940  1.00 40.49
ATOM   2709  O4N NAG C  16      69.964  66.684  71.490  1.00 46.63
ATOM   2710  O6N NAG C  16      67.755  64.056  72.903  1.00 51.89
ATOM   2711  C7N NAG C  16      68.036  65.458  66.133  1.00 47.46
ATOM   2712  O7N NAG C  16      66.874  65.801  66.361  1.00 47.04
ATOM   2713  C8N NAG C  16      68.598  65.466  64.705  1.00 42.60
ATOM   2714  C1F FUC C  16      69.620  68.067  68.015  1.00 37.25
ATOM   2715  C2F FUC C  16      68.713  69.215  67.550  1.00 37.71
ATOM   2716  C3F FUC C  16      68.368  70.078  68.780  1.00 32.31
ATOM   2717  C4F FUC C  16      69.700  70.635  69.405  1.00 33.88
ATOM   2718  C5F FUC C  16      70.654  69.479  69.782  1.00 38.69
ATOM   2719  C6F FUC C  16      72.043  69.950  70.252  1.00 43.21
ATOM   2720  O5F FUC C  16      70.814  68.621  68.623  1.00 44.88
ATOM   2721  O2F FUC C  16      67.540  68.679  66.960  1.00 44.56
ATOM   2722  O3F FUC C  16      67.603  71.186  68.379  1.00 32.94
ATOM   2723  O4F FUC C  16      70.280  71.445  68.395  1.00 36.58
ATOM   2724  C1H GAL C  16      66.390  56.048  67.586  1.00 63.72
ATOM   2725  C2H GAL C  16      66.376  54.536  67.291  1.00 69.31
ATOM   2726  C3H GAL C  16      65.196  53.883  68.049  1.00 71.16
ATOM   2727  C4H GAL C  16      65.319  54.170  69.559  1.00 73.89
ATOM   2728  C5H GAL C  16      65.444  55.719  69.788  1.00 75.05
ATOM   2729  C6H GAL C  16      65.714  56.063  71.258  1.00 79.02
ATOM   2730  O5H GAL C  16      66.523  56.231  68.989  1.00 70.11
ATOM   2731  O2H GAL C  16      66.144  54.239  65.940  1.00 65.78
ATOM   2732  O3H GAL C  16      65.208  52.476  67.815  1.00 75.75
ATOM   2733  O4H GAL C  16      66.477  53.474  69.982  1.00 74.74
ATOM   2734  O6H GAL C  16      64.598  55.727  72.050  1.00 86.67
ATOM   2735  C1O GAN C  16      68.230  59.885  65.122  1.00 53.47
ATOM   2736  C2O GAN C  16      68.223  58.368  65.378  1.00 52.33
ATOM   2737  N2O GAN C  16      67.638  57.709  64.215  1.00 60.02
ATOM   2738  C3O GAN C  16      67.423  58.041  66.654  1.00 56.39
ATOM   2739  C4O GAN C  16      67.981  58.856  67.860  1.00 54.69
ATOM   2740  C5O GAN C  16      67.956  60.360  67.506  1.00 50.46
ATOM   2741  C6O GAN C  16      68.503  61.254  68.602  1.00 50.50
ATOM   2742  O5O GAN C  16      68.721  60.558  66.288  1.00 51.34
ATOM   2743  O3O GAN C  16      67.484  56.644  66.923  1.00 59.36
ATOM   2744  C7O GAN C  16      68.258  56.711  63.557  1.00 63.04
ATOM   2745  O7O GAN C  16      69.349  56.241  63.835  1.00 62.79
ATOM   2746  C8O GAN C  16      67.462  56.171  62.372  1.00 62.77
ATOM   2747  O2O GAN C  16      69.323  58.495  68.127  1.00 54.39
ATOM   2748  N   THR C  16      64.597  60.857  63.429  1.00 42.51
ATOM   2749  CA  THR C  16      65.898  61.369  63.002  1.00 47.71
ATOM   2750  C   THR C  16      66.565  60.377  62.059  1.00 50.94
ATOM   2751  O   THR C  16      66.258  59.185  62.086  1.00 48.41
ATOM   2752  CB  THR C  16      66.781  61.593  64.214  1.00 47.74
ATOM   2753  OG1 THR C  16      66.902  60.337  64.858  1.00 42.78
ATOM   2754  CG2 THR C  16      66.155  62.613  65.182  1.00 41.26
ATOM   2755  N   GLU C  17      67.497  60.878  61.255  1.00 56.14
ATOM   2756  CA  GLU C  17      68.233  60.044  60.316  1.00 62.67
ATOM   2757  CB  GLU C  17      68.569  60.858  59.076  1.00 60.44
ATOM   2758  CG  GLU C  17      67.346  61.085  58.213  1.00 67.36
ATOM   2759  CD  GLU C  17      67.702  61.478  56.802  1.00 70.65
ATOM   2760  OE1 GLU C  17      68.447  62.468  56.640  1.00 75.64
ATOM   2761  OE2 GLU C  17      67.238  60.801  55.856  1.00 76.33
ATOM   2762  C   GLU C  17      69.495  59.467  60.957  1.00 66.06
ATOM   2763  O   GLU C  17      69.777  59.742  62.122  1.00 66.20
ATOM   2764  N   PRO C  18      70.262  58.648  60.211  1.00 69.62
ATOM   2765  CD  PRO C  18      70.134  58.371  58.766  1.00 68.81
ATOM   2766  CA  PRO C  18      71.489  58.041  60.742  1.00 68.67
ATOM   2767  CB  PRO C  18      72.304  57.781  59.486  1.00 68.61
ATOM   2768  CG  PRO C  18      71.252  57.372  58.514  1.00 69.75
ATOM   2769  C   PRO C  18      72.237  58.910  61.741  1.00 67.88
ATOM   2770  O   PRO C  18      73.232  59.543  61.394  1.00 71.15
ATOM   2771  N   ALA D   5      53.328 100.885  26.369  1.00 65.20
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ATOM 2772 CA ALA D 5 52.389 101.835 25.770 1.00 65.41
ATOM 2773 CB ALA D 5 51.072 101.823 26.564 1.00 64.52
ATOM 2774 C ALA D 5 52.998 103.253 25.752 1.00 63.87
ATOM 2775 O ALA D 5 54.127 103.459 26.218 1.00 66.53
ATOM 2776 N GLU D 6 52.289 104.230 25.189 1.00 59.64
ATOM 2777 CA GLU D 6 52.840 105.582 25.193 1.00 53.01
ATOM 2778 CB GLU D 6 52.660 106.317 23.862 1.00 58.41
ATOM 2779 CG GLU D 6 53.243 107.742 23.921 1.00 59.57
ATOM 2780 CD GLU D 6 53.965 108.162 22.648 1.00 70.35
ATOM 2781 OE1 GLU D 6 54.817 107.383 22.160 1.00 73.07
ATOM 2782 OE2 GLU D 6 53.696 109.281 22.144 1.00 72.38
ATOM 2783 C GLU D 6 52.149 106.347 26.297 1.00 46.16
ATOM 2784 O GLU D 6 50.962 106.156 26.576 1.00 44.72
ATOM 2785 N TYS D 7 52.901 107.213 26.940 1.00 36.61
ATOM 2786 CA TYS D 7 52.325 107.946 28.034 1.00 34.71
ATOM 2787 CB TYS D 7 53.140 107.721 29.339 1.00 37.42
ATOM 2788 CG TYS D 7 53.452 106.236 29.549 1.00 35.69
ATOM 2789 CD1 TYS D 7 54.755 105.709 29.311 1.00 42.42
ATOM 2790 CE1 TYS D 7 55.013 104.301 29.478 1.00 40.14
ATOM 2791 CD2 TYS D 7 52.423 105.349 29.970 1.00 38.12
ATOM 2792 CE2 TYS D 7 52.677 103.966 30.122 1.00 39.88
ATOM 2793 CZ TYS D 7 53.973 103.439 29.857 1.00 36.53
ATOM 2794 C TYS D 7 52.234 109.437 27.749 1.00 32.29
ATOM 2795 OH TYS D 7 54.234 102.075 29.909 1.00 43.22
ATOM 2796 S1 TYS D 7 54.160 101.439 31.373 1.00 39.89
ATOM 2797 O1 TYS D 7 54.785 100.080 31.301 1.00 44.24
ATOM 2798 O2 TYS D 7 52.729 101.307 31.753 1.00 40.61
ATOM 2799 O3 TYS D 7 54.925 102.256 32.366 1.00 37.73
ATOM 2800 O TYS D 7 51.947 110.232 28.638 1.00 35.71
ATOM 2801 N LEU D 8 52.602 109.802 26.523 1.00 34.26
ATOM 2802 CA LEU D 8 52.637 111.190 26.091 1.00 35.07
ATOM 2803 CB LEU D 8 54.077 111.562 25.688 1.00 37.71
ATOM 2804 CG LEU D 8 55.237 111.309 26.681 1.00 46.56
ATOM 2805 CD1 LEU D 8 56.599 111.509 25.999 1.00 46.36
ATOM 2806 CD2 LEU D 8 55.124 112.256 27.857 1.00 42.23
ATOM 2807 C LEU D 8 51.689 111.314 24.891 1.00 39.36
ATOM 2808 O LEU D 8 51.985 110.841 23.800 1.00 39.98
ATOM 2809 N ASP D 9 50.522 111.909 25.097 1.00 36.24
ATOM 2810 CA ASP D 9 49.577 112.071 24.001 1.00 32.69
ATOM 2811 CB ASP D 9 48.211 111.507 24.395 1.00 32.42
ATOM 2812 CG ASP D 9 47.230 111.493 23.236 1.00 34.63
ATOM 2813 OD1 ASP D 9 47.329 112.392 22.364 1.00 37.58
ATOM 2814 OD2 ASP D 9 46.361 110.592 23.199 1.00 36.47
ATOM 2815 C ASP D 9 49.510 113.578 23.769 1.00 36.75
ATOM 2816 O ASP D 9 48.884 114.316 24.541 1.00 33.21
ATOM 2817 N TYS D 10 50.147 114.032 22.697 1.00 35.71
ATOM 2818 CA TYS D 10 50.222 115.454 22.439 1.00 34.90
ATOM 2819 CB TYS D 10 51.368 115.819 21.478 1.00 31.97
ATOM 2820 CG TYS D 10 52.702 115.401 22.061 1.00 33.25
ATOM 2821 CD1 TYS D 10 53.687 114.701 21.288 1.00 39.98
ATOM 2822 CE1 TYS D 10 54.952 114.380 21.862 1.00 40.61
ATOM 2823 CD2 TYS D 10 53.011 115.733 23.412 1.00 32.53
ATOM 2824 CE2 TYS D 10 54.256 115.403 23.974 1.00 37.14
ATOM 2825 CZ TYS D 10 55.222 114.709 23.213 1.00 41.40
ATOM 2826 C TYS D 10 48.906 116.142 21.990 1.00 33.76
ATOM 2827 OH TYS D 10 56.423 114.273 23.763 1.00 41.98
ATOM 2828 S1 TYS D 10 57.310 115.396 24.434 1.00 46.09
ATOM 2829 O1 TYS D 10 58.633 114.774 24.740 1.00 50.87
ATOM 2830 O2 TYS D 10 56.685 115.851 25.709 1.00 53.93
ATOM 2831 O3 TYS D 10 57.521 116.553 23.517 1.00 52.43
ATOM 2832 O TYS D 10 48.926 117.297 21.572 1.00 34.74
ATOM 2833 N ASP D 11 47.786 115.430 22.022 1.00 34.12
ATOM 2834 CA ASP D 11 46.491 116.052 21.704 1.00 33.50
ATOM 2835 CB ASP D 11 45.439 115.011 21.314 1.00 33.38
ATOM 2836 CG ASP D 11 45.674 114.400 19.943 1.00 39.59
ATOM 2837 OD1 ASP D 11 46.371 115.021 19.115 1.00 35.20

ATOM	2838	OD2	ASP	D	11	45.130	113.302	19.689	1.00	40.60
ATOM	2839	C	ASP	D	11	46.017	116.714	23.005	1.00	30.52
ATOM	2840	O	ASP	D	11	45.072	117.520	23.021	1.00	33.46
ATOM	2841	N	PHE	D	12	46.695	116.364	24.098	1.00	27.86
ATOM	2842	CA	PHE	D	12	46.353	116.847	25.439	1.00	26.81
ATOM	2843	CB	PHE	D	12	45.770	115.700	26.271	1.00	31.75
ATOM	2844	CG	PHE	D	12	44.593	115.036	25.651	1.00	30.74
ATOM	2845	CD1	PHE	D	12	44.749	113.903	24.856	1.00	32.65
ATOM	2846	CD2	PHE	D	12	43.320	115.556	25.836	1.00	29.72
ATOM	2847	CE1	PHE	D	12	43.651	113.296	24.249	1.00	31.81
ATOM	2848	CE2	PHE	D	12	42.214	114.958	25.231	1.00	32.44
ATOM	2849	CZ	PHE	D	12	42.376	113.827	24.436	1.00	34.07
ATOM	2850	C	PHE	D	12	47.510	117.421	26.235	1.00	30.25
ATOM	2851	O	PHE	D	12	47.365	118.430	26.931	1.00	26.40
ATOM	2852	N	LEU	D	13	48.652	116.736	26.177	1.00	30.54
ATOM	2853	CA	LEU	D	13	49.830	117.152	26.923	1.00	29.29
ATOM	2854	CB	LEU	D	13	50.645	115.898	27.308	1.00	28.84
ATOM	2855	CG	LEU	D	13	52.004	116.084	27.977	1.00	33.93
ATOM	2856	CD1	LEU	D	13	51.838	116.433	29.469	1.00	32.65
ATOM	2857	CD2	LEU	D	13	52.799	114.773	27.812	1.00	33.62
ATOM	2858	C	LEU	D	13	50.684	118.071	26.075	1.00	27.18
ATOM	2859	O	LEU	D	13	50.965	117.751	24.920	1.00	29.80
ATOM	2860	N	PRO	D	14	51.105	119.227	26.622	1.00	30.41
ATOM	2861	CD	PRO	D	14	50.732	119.862	27.901	1.00	30.94
ATOM	2862	CA	PRO	D	14	51.942	120.120	25.812	1.00	35.12
ATOM	2863	CB	PRO	D	14	52.037	121.399	26.656	1.00	33.81
ATOM	2864	CG	PRO	D	14	51.809	120.913	28.062	1.00	39.80
ATOM	2865	C	PRO	D	14	53.318	119.499	25.560	1.00	37.41
ATOM	2866	O	PRO	D	14	53.874	118.809	26.424	1.00	33.30
ATOM	2867	N	GLU	D	15	53.853	119.734	24.370	1.00	35.89
ATOM	2868	CA	GLU	D	15	55.172	119.217	24.022	1.00	39.06
ATOM	2869	CB	GLU	D	15	55.412	119.352	22.523	1.00	41.61
ATOM	2870	CG	GLU	D	15	54.438	118.564	21.688	1.00	45.40
ATOM	2871	CD	GLU	D	15	54.533	118.896	20.212	1.00	56.52
ATOM	2872	OE1	GLU	D	15	54.431	120.091	19.861	1.00	64.03
ATOM	2873	OE2	GLU	D	15	54.700	117.964	19.401	1.00	62.87
ATOM	2874	C	GLU	D	15	56.225	120.006	24.775	1.00	36.73
ATOM	2875	O	GLU	D	15	56.003	121.165	25.136	1.00	36.07
ATOM	2876	C1S	SIA	D	16	63.593	107.296	35.732	1.00	39.73
ATOM	2877	O1S	SIA	D	16	63.216	106.683	34.760	1.00	42.70
ATOM	2878	O1T	SIA	D	16	63.102	107.083	36.838	1.00	41.36
ATOM	2879	C2S	SIA	D	16	64.734	108.386	35.562	1.00	44.72
ATOM	2880	C6S	SIA	D	16	66.004	107.179	33.795	1.00	51.81
ATOM	2881	O6S	SIA	D	16	65.295	108.371	34.232	1.00	44.44
ATOM	2882	C3S	SIA	D	16	65.885	108.133	36.569	1.00	43.88
ATOM	2883	C4S	SIA	D	16	66.693	106.877	36.157	1.00	46.73
ATOM	2884	O4S	SIA	D	16	67.763	106.706	37.021	1.00	43.67
ATOM	2885	C5S	SIA	D	16	67.224	107.029	34.716	1.00	49.51
ATOM	2886	N5S	SIA	D	16	68.015	105.837	34.349	1.00	58.59
ATOM	2887	C5U	SIA	D	16	69.362	105.761	34.149	1.00	59.42
ATOM	2888	O5V	SIA	D	16	69.911	104.732	33.772	1.00	62.24
ATOM	2889	C5W	SIA	D	16	70.204	107.021	34.413	1.00	54.60
ATOM	2890	C7S	SIA	D	16	66.280	107.381	32.299	1.00	55.05
ATOM	2891	O7S	SIA	D	16	67.264	108.395	32.202	1.00	53.69
ATOM	2892	C8S	SIA	D	16	64.951	107.776	31.573	1.00	59.48
ATOM	2893	O8S	SIA	D	16	63.974	106.758	31.691	1.00	61.84
ATOM	2894	C9S	SIA	D	16	65.117	108.040	30.075	1.00	59.84
ATOM	2895	O9S	SIA	D	16	65.451	106.808	29.494	1.00	66.70
ATOM	2896	C1G	GAL	D	16	62.440	111.796	33.188	1.00	38.52
ATOM	2897	C2G	GAL	D	16	63.612	111.308	34.053	1.00	37.87
ATOM	2898	C3G	GAL	D	16	63.138	110.109	34.881	1.00	35.89
ATOM	2899	C4G	GAL	D	16	61.869	110.464	35.701	1.00	28.05
ATOM	2900	C5G	GAL	D	16	60.783	110.976	34.722	1.00	39.92
ATOM	2901	C6G	GAL	D	16	59.509	111.409	35.451	1.00	36.72
ATOM	2902	O5G	GAL	D	16	61.310	112.101	34.009	1.00	36.90
ATOM	2903	O2G	GAL	D	16	64.673	110.879	33.237	1.00	36.42

ATOM	2904	O3G	GAL	D	16	64.194	109.717	35.769	1.00	40.73
ATOM	2905	O4G	GAL	D	16	62.267	111.471	36.611	1.00	32.86
ATOM	2906	O6G	GAL	D	16	58.869	110.281	36.004	1.00	35.00
ATOM	2907	C1N	NAG	D	16	62.023	115.035	29.126	1.00	37.15
ATOM	2908	C2N	NAG	D	16	61.273	115.490	30.375	1.00	34.43
ATOM	2909	N2N	NAG	D	16	61.299	116.944	30.426	1.00	36.47
ATOM	2910	C3N	NAG	D	16	61.956	114.908	31.610	1.00	34.96
ATOM	2911	C4N	NAG	D	16	62.054	113.372	31.488	1.00	34.72
ATOM	2912	C5N	NAG	D	16	62.705	112.977	30.135	1.00	40.20
ATOM	2913	C6N	NAG	D	16	62.715	111.472	29.806	1.00	36.72
ATOM	2914	O1N	NAG	D	16	61.402	115.550	28.007	1.00	37.77
ATOM	2915	O5N	NAG	D	16	62.010	113.612	29.072	1.00	37.81
ATOM	2916	O3N	NAG	D	16	61.197	115.248	32.747	1.00	35.43
ATOM	2917	O4N	NAG	D	16	62.873	112.938	32.524	1.00	33.13
ATOM	2918	O6N	NAG	D	16	61.431	110.911	30.015	1.00	40.37
ATOM	2919	C7N	NAG	D	16	60.159	117.670	30.443	1.00	41.86
ATOM	2920	O7N	NAG	D	16	59.019	117.223	30.345	1.00	34.22
ATOM	2921	C8N	NAG	D	16	60.404	119.172	30.590	1.00	39.25
ATOM	2922	C1F	FUC	D	16	61.612	116.322	33.551	1.00	30.91
ATOM	2923	C2F	FUC	D	16	60.428	116.692	34.457	1.00	31.40
ATOM	2924	C3F	FUC	D	16	60.129	115.486	35.400	1.00	31.52
ATOM	2925	C4F	FUC	D	16	61.381	115.198	36.257	1.00	34.34
ATOM	2926	C5F	FUC	D	16	62.616	114.907	35.353	1.00	36.44
ATOM	2927	C6F	FUC	D	16	63.917	114.756	36.148	1.00	36.85
ATOM	2928	O5F	FUC	D	16	62.770	115.990	34.385	1.00	37.20
ATOM	2929	O2F	FUC	D	16	59.309	116.992	33.668	1.00	34.49
ATOM	2930	O3F	FUC	D	16	59.089	115.794	36.298	1.00	36.61
ATOM	2931	O4F	FUC	D	16	61.625	116.357	37.054	1.00	31.58
ATOM	2932	C1H	GAL	D	16	60.959	115.865	20.928	1.00	58.55
ATOM	2933	C2H	GAL	D	16	61.753	115.765	19.618	1.00	63.21
ATOM	2934	C3H	GAL	D	16	60.800	115.403	18.469	1.00	68.16
ATOM	2935	C4H	GAL	D	16	60.101	114.068	18.797	1.00	69.66
ATOM	2936	C5H	GAL	D	16	59.351	114.213	20.167	1.00	70.55
ATOM	2937	C6H	GAL	D	16	58.685	112.894	20.595	1.00	76.63
ATOM	2938	O5H	GAL	D	16	60.305	114.619	21.172	1.00	62.81
ATOM	2939	O2H	GAL	D	16	62.359	116.973	19.244	1.00	66.16
ATOM	2940	O3H	GAL	D	16	61.555	115.290	17.272	1.00	74.66
ATOM	2941	O4H	GAL	D	16	61.142	113.113	18.875	1.00	71.51
ATOM	2942	O6H	GAL	D	16	57.638	112.557	19.703	1.00	81.57
ATOM	2943	C1O	GAN	D	16	61.467	118.373	24.977	1.00	48.30
ATOM	2944	C2O	GAN	D	16	61.870	117.967	23.544	1.00	50.33
ATOM	2945	N2O	GAN	D	16	61.295	118.904	22.571	1.00	58.34
ATOM	2946	C3O	GAN	D	16	61.394	116.531	23.217	1.00	54.35
ATOM	2947	C4O	GAN	D	16	61.933	115.551	24.282	1.00	46.07
ATOM	2948	C5O	GAN	D	16	61.458	116.016	25.684	1.00	38.79
ATOM	2949	C6O	GAN	D	16	61.951	115.112	26.795	1.00	35.11
ATOM	2950	O5O	GAN	D	16	61.926	117.361	25.915	1.00	41.78
ATOM	2951	O3O	GAN	D	16	61.874	116.160	21.946	1.00	49.74
ATOM	2952	C7O	GAN	D	16	62.059	119.501	21.629	1.00	58.78
ATOM	2953	O7O	GAN	D	16	63.283	119.427	21.546	1.00	56.61
ATOM	2954	C8O	GAN	D	16	61.255	120.313	20.610	1.00	53.87
ATOM	2955	O2O	GAN	D	16	63.352	115.551	24.273	1.00	41.84
ATOM	2956	N	THR	D	16	57.373	119.386	25.041	1.00	31.29
ATOM	2957	CA	THR	D	16	58.440	120.095	25.735	1.00	35.14
ATOM	2958	C	THR	D	16	59.054	121.114	24.769	1.00	35.29
ATOM	2959	O	THR	D	16	58.953	120.967	23.550	1.00	38.10
ATOM	2960	CB	THR	D	16	59.514	119.106	26.217	1.00	39.60
ATOM	2961	OG1	THR	D	16	60.046	118.479	25.055	1.00	43.20
ATOM	2962	CG2	THR	D	16	58.920	118.032	27.140	1.00	37.51
ATOM	2963	N	GLU	D	17	59.705	122.122	25.331	1.00	39.77
ATOM	2964	CA	GLU	D	17	60.368	123.162	24.548	1.00	44.81
ATOM	2965	CB	GLU	D	17	60.473	124.435	25.378	1.00	41.83
ATOM	2966	CG	GLU	D	17	59.160	125.180	25.493	1.00	44.92
ATOM	2967	CD	GLU	D	17	58.749	125.756	24.160	1.00	46.39
ATOM	2968	OE1	GLU	D	17	59.390	126.740	23.706	1.00	43.70
ATOM	2969	OE2	GLU	D	17	57.806	125.207	23.559	1.00	42.74

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ATOM	2970	C	GLU	D	17	61.771	122.697	24.175	1.00	51.43
ATOM	2971	O	GLU	D	17	62.308	121.769	24.788	1.00	46.84
ATOM	2972	N	PRO	D	18	62.385	123.340	23.166	1.00	55.51
ATOM	2973	CD	PRO	D	18	61.797	124.313	22.225	1.00	55.07
ATOM	2974	CA	PRO	D	18	63.740	122.957	22.749	1.00	55.88
ATOM	2975	CB	PRO	D	18	64.007	123.882	21.563	1.00	57.08
ATOM	2976	CG	PRO	D	18	62.630	124.079	20.977	1.00	58.71
ATOM	2977	C	PRO	D	18	64.738	123.180	23.888	1.00	56.91
ATOM	2978	O	PRO	D	18	64.494	124.108	24.693	1.00	53.78
ATOM	2979	OXT	PRO	D	18	65.750	122.442	23.956	1.00	58.53
ATOM	2980	OH2	WAT	E	1	54.114	109.310	32.439	1.00	30.85
ATOM	2981	OH2	WAT	E	2	57.087	102.086	38.995	1.00	27.74
ATOM	2982	OH2	WAT	E	3	53.467	73.117	66.148	1.00	35.64
ATOM	2983	OH2	WAT	E	4	52.961	65.805	61.298	1.00	34.07
ATOM	2984	OH2	WAT	E	5	56.388	64.906	69.606	1.00	33.75
ATOM	2985	OH2	WAT	E	6	44.747	85.916	73.401	1.00	32.13
ATOM	2986	OH2	WAT	E	7	50.386	70.991	66.303	1.00	34.14
ATOM	2987	OH2	WAT	E	8	63.381	73.639	81.773	1.00	32.89
ATOM	2988	OH2	WAT	E	9	44.095	113.028	51.971	1.00	39.82
ATOM	2989	OH2	WAT	E	10	55.560	122.215	40.527	1.00	34.80
ATOM	2990	OH2	WAT	E	11	71.894	73.748	71.777	1.00	41.73
ATOM	2991	OH2	WAT	E	12	43.530	99.751	34.088	1.00	41.35
ATOM	2992	OH2	WAT	E	13	55.328	86.595	86.864	1.00	35.50
ATOM	2993	OH2	WAT	E	14	60.731	68.338	73.488	1.00	37.49
ATOM	2994	OH2	WAT	E	15	44.658	112.641	49.269	1.00	35.48
ATOM	2995	OH2	WAT	E	16	44.305	70.830	71.211	1.00	37.61
ATOM	2996	OH2	WAT	E	17	51.201	114.285	101.984	1.00	34.34
ATOM	2997	OH2	WAT	E	18	57.781	59.845	62.322	1.00	33.59
ATOM	2998	OH2	WAT	E	19	56.131	87.110	69.823	1.00	36.90
ATOM	2999	OH2	WAT	E	20	45.341	63.616	65.813	1.00	30.44
ATOM	3000	OH2	WAT	E	21	49.226	119.991	35.133	1.00	39.24
ATOM	3001	OH2	WAT	E	22	56.381	89.796	69.530	1.00	40.24
ATOM	3002	OH2	WAT	E	23	52.453	88.874	71.825	1.00	40.40
ATOM	3003	OH2	WAT	E	24	63.323	113.379	39.814	1.00	37.48
ATOM	3004	OH2	WAT	E	25	44.673	115.259	34.950	1.00	33.65
ATOM	3005	OH2	WAT	E	26	44.095	86.320	70.705	1.00	40.88
ATOM	3006	OH2	WAT	E	27	57.176	74.726	60.326	1.00	51.70
ATOM	3007	OH2	WAT	E	28	43.010	97.785	35.920	1.00	52.33
ATOM	3008	OH2	WAT	E	29	55.885	117.063	33.483	1.00	35.61
ATOM	3009	OH2	WAT	E	30	34.226	104.830	45.708	1.00	47.08
ATOM	3010	OH2	WAT	E	31	63.058	73.297	88.995	1.00	43.19
ATOM	3011	OH2	WAT	E	32	56.464	108.516	31.347	1.00	38.41
ATOM	3012	OH2	WAT	E	33	43.192	110.656	48.361	1.00	37.97
ATOM	3013	OH2	WAT	E	34	38.656	77.608	72.374	1.00	43.40
ATOM	3014	OH2	WAT	E	35	45.428	95.906	41.986	1.00	41.17
ATOM	3015	OH2	WAT	E	36	63.399	99.705	45.162	1.00	36.36
ATOM	3016	OH2	WAT	E	37	66.063	111.621	45.131	1.00	48.66
ATOM	3017	OH2	WAT	E	38	64.202	69.192	66.356	1.00	38.20
ATOM	3018	OH2	WAT	E	39	70.786	72.958	76.978	1.00	42.35
ATOM	3019	OH2	WAT	E	40	43.977	93.670	52.413	1.00	38.57
ATOM	3020	OH2	WAT	E	41	65.343	116.888	39.164	1.00	41.03
ATOM	3021	OH2	WAT	E	42	50.172	92.065	74.265	1.00	42.02
ATOM	3022	OH2	WAT	E	43	54.874	108.435	90.457	1.00	45.98
ATOM	3023	OH2	WAT	E	44	41.453	101.550	62.153	1.00	41.12
ATOM	3024	OH2	WAT	E	45	46.826	95.753	50.226	1.00	39.74
ATOM	3025	OH2	WAT	E	46	60.201	73.870	57.407	1.00	56.58
ATOM	3026	OH2	WAT	E	47	58.428	67.727	59.173	1.00	54.35
ATOM	3027	OH2	WAT	E	48	37.231	90.832	56.785	1.00	44.38
ATOM	3028	OH2	WAT	E	49	64.829	111.619	38.131	1.00	35.80
ATOM	3029	OH2	WAT	E	50	58.700	114.257	27.772	1.00	36.52
ATOM	3030	OH2	WAT	E	51	64.487	69.067	74.969	1.00	38.85
ATOM	3031	OH2	WAT	E	52	57.943	115.121	32.306	1.00	37.18
ATOM	3032	OH2	WAT	E	53	57.405	99.883	32.379	1.00	38.42
ATOM	3033	OH2	WAT	E	54	58.758	101.037	86.221	1.00	39.40
ATOM	3034	OH2	WAT	E	55	49.213	60.006	69.234	1.00	39.54
ATOM	3035	OH2	WAT	E	56	49.781	55.412	64.582	1.00	52.95

PDB-2VPA-DECOY

ATOM	3036	OH2	WAT	E	57	58.601	72.519	62.260	1.00	40.89
ATOM	3037	OH2	WAT	E	58	68.698	98.855	39.227	1.00	37.43
ATOM	3038	OH2	WAT	E	59	61.206	68.225	85.725	1.00	46.95
ATOM	3039	OH2	WAT	E	60	49.696	97.087	80.152	1.00	51.13
ATOM	3040	OH2	WAT	E	61	65.240	100.625	43.235	1.00	35.45
ATOM	3041	OH2	WAT	E	62	44.313	90.086	64.382	1.00	44.30
ATOM	3042	OH2	WAT	E	63	42.980	90.461	70.339	1.00	51.30
ATOM	3043	OH2	WAT	E	64	69.241	92.778	77.165	1.00	54.11
ATOM	3044	OH2	WAT	E	65	38.800	107.325	53.223	1.00	51.31
ATOM	3045	OH2	WAT	E	66	48.867	71.885	80.631	1.00	36.75
ATOM	3046	OH2	WAT	E	67	50.402	81.083	65.046	1.00	38.40
ATOM	3047	OH2	WAT	E	68	65.593	67.260	68.353	1.00	45.35
ATOM	3048	OH2	WAT	E	69	57.843	108.630	34.247	1.00	42.18
ATOM	3049	OH2	WAT	E	70	33.521	102.092	44.873	1.00	55.85
ATOM	3050	OH2	WAT	E	71	42.720	72.896	71.428	1.00	44.83
ATOM	3051	OH2	WAT	E	72	48.322	73.354	82.236	1.00	38.50
ATOM	3052	OH2	WAT	E	73	62.149	67.333	59.884	1.00	39.44
ATOM	3053	OH2	WAT	E	74	38.822	112.878	38.525	1.00	42.16
ATOM	3054	OH2	WAT	E	75	61.715	66.825	83.201	1.00	41.33
ATOM	3055	OH2	WAT	E	76	64.449	99.086	40.971	1.00	41.01
ATOM	3056	OH2	WAT	E	77	52.226	70.764	61.326	1.00	46.76
ATOM	3057	OH2	WAT	E	78	41.293	110.044	50.481	1.00	42.05
ATOM	3058	OH2	WAT	E	79	74.488	74.815	72.374	1.00	48.10
ATOM	3059	OH2	WAT	E	80	48.947	92.875	76.409	1.00	46.75
ATOM	3060	OH2	WAT	E	81	59.370	122.040	28.273	1.00	38.21
ATOM	3061	OH2	WAT	E	82	48.877	125.075	36.406	1.00	50.00
ATOM	3062	OH2	WAT	E	83	34.975	101.513	55.748	1.00	51.56
ATOM	3063	OH2	WAT	E	84	57.884	106.003	30.495	1.00	46.10
ATOM	3064	OH2	WAT	E	85	66.707	111.358	42.090	1.00	54.53
ATOM	3065	OH2	WAT	E	86	53.317	66.553	79.339	1.00	51.37
ATOM	3066	OH2	WAT	E	87	60.736	108.690	59.973	1.00	46.74
ATOM	3067	OH2	WAT	E	88	35.785	87.377	60.356	1.00	43.70
ATOM	3068	OH2	WAT	E	89	30.522	82.548	69.227	1.00	52.25
ATOM	3069	OH2	WAT	E	90	69.401	100.611	41.307	1.00	45.24
ATOM	3070	OH2	WAT	E	91	31.381	91.886	55.897	1.00	42.15
ATOM	3071	OH2	WAT	E	92	54.221	90.864	71.201	1.00	51.27
ATOM	3072	OH2	WAT	E	93	62.511	66.706	74.448	1.00	44.18
ATOM	3073	OH2	WAT	E	94	59.799	59.670	60.382	1.00	55.99
ATOM	3074	OH2	WAT	E	95	65.541	113.630	41.528	1.00	41.20
ATOM	3075	OH2	WAT	E	96	56.575	79.607	56.715	1.00	61.60
ATOM	3076	OH2	WAT	E	97	50.653	66.596	76.879	1.00	47.48
ATOM	3077	OH2	WAT	E	98	65.016	106.688	47.905	1.00	43.84
ATOM	3078	OH2	WAT	E	99	53.971	126.408	35.759	1.00	44.38
ATOM	3079	OH2	WAT	E	100	59.038	93.085	68.054	1.00	47.72
ATOM	3080	OH2	WAT	E	101	57.809	110.550	86.065	1.00	46.13
ATOM	3081	OH2	WAT	E	102	57.396	78.135	60.331	1.00	52.24
ATOM	3082	OH2	WAT	E	103	32.158	98.138	54.893	1.00	49.99
ATOM	3083	OH2	WAT	E	104	63.299	108.036	39.442	1.00	39.42
ATOM	3084	OH2	WAT	E	105	48.834	115.229	103.760	1.00	54.45
ATOM	3085	OH2	WAT	E	106	61.349	107.212	50.024	1.00	53.69
ATOM	3086	OH2	WAT	E	107	37.755	75.224	64.950	1.00	47.33
ATOM	3087	OH2	WAT	E	108	65.397	62.948	68.856	1.00	46.89
ATOM	3088	OH2	WAT	E	109	45.868	112.800	53.914	1.00	46.48
ATOM	3089	OH2	WAT	E	110	39.582	92.968	54.216	1.00	48.69
ATOM	3090	OH2	WAT	E	111	34.216	82.686	77.427	1.00	57.76
ATOM	3091	OH2	WAT	E	112	38.694	110.749	49.517	1.00	53.65
ATOM	3092	OH2	WAT	E	113	46.070	95.058	39.498	1.00	63.29
ATOM	3093	OH2	WAT	E	114	54.994	72.979	87.846	1.00	54.10
ATOM	3094	OH2	WAT	E	115	42.146	108.814	95.083	1.00	50.19
ATOM	3095	OH2	WAT	E	116	46.542	53.579	63.999	1.00	47.78
ATOM	3096	OH2	WAT	E	117	61.094	105.777	33.585	1.00	50.55
ATOM	3097	OH2	WAT	E	118	38.186	101.002	59.048	1.00	42.25
ATOM	3098	OH2	WAT	E	119	53.383	105.294	92.756	1.00	43.88
ATOM	3099	OH2	WAT	E	122	52.102	97.698	93.656	1.00	52.66
ATOM	3100	OH2	WAT	E	123	47.003	89.590	62.768	1.00	50.87
ATOM	3101	OH2	WAT	E	124	52.630	68.135	60.425	1.00	50.76

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ATOM	3102	OH2	WAT	E	125	66.618	76.581	61.760	1.00 54.73
ATOM	3103	OH2	WAT	E	126	49.386	122.734	30.203	1.00 43.17
ATOM	3104	OH2	WAT	E	127	50.481	98.887	59.771	1.00 47.80
ATOM	3105	OH2	WAT	E	128	51.243	72.241	64.175	1.00 43.29
ATOM	3106	OH2	WAT	E	129	41.322	103.950	60.819	1.00 46.74
ATOM	3107	OH2	WAT	E	130	63.767	103.842	35.211	1.00 49.18
ATOM	3108	OH2	WAT	E	131	50.146	61.922	74.905	1.00 47.56
ATOM	3109	OH2	WAT	E	132	57.161	97.469	33.565	1.00 48.22
ATOM	3110	OH2	WAT	E	133	65.892	98.236	85.471	1.00 56.58
ATOM	3111	OH2	WAT	E	134	45.580	80.452	66.722	1.00 66.23
ATOM	3112	OH2	WAT	E	135	53.867	86.553	71.293	1.00 43.75
ATOM	3113	OH2	WAT	E	136	39.949	115.103	39.290	1.00 55.41
ATOM	3114	OH2	WAT	E	137	65.402	119.694	38.451	1.00 55.50
ATOM	3115	OH2	WAT	E	138	73.913	80.943	79.310	1.00 51.19
ATOM	3116	OH2	WAT	E	139	56.087	68.416	59.872	1.00 50.57
ATOM	3117	OH2	WAT	E	140	33.657	79.475	68.358	1.00 43.80
ATOM	3118	OH2	WAT	E	141	75.896	83.749	69.626	1.00 63.09
ATOM	3119	OH2	WAT	E	142	34.863	98.741	54.504	1.00 48.08
ATOM	3120	OH2	WAT	E	143	29.287	97.138	61.141	1.00 48.93
ATOM	3121	OH2	WAT	F	144	53.870	105.384	98.795	1.00 44.64
ATOM	3122	OH2	WAT	E	145	42.208	74.586	62.718	1.00 42.18
ATOM	3123	OH2	WAT	E	146	35.222	107.052	46.588	1.00 49.25
ATOM	3124	OH2	WAT	E	147	37.469	102.942	52.192	1.00 47.39
ATOM	3125	OH2	WAT	E	148	39.888	115.961	41.920	1.00 47.59
ATOM	3126	OH2	WAT	E	149	53.997	108.491	95.013	1.00 51.10
ATOM	3127	OH2	WAT	E	150	48.394	103.127	100.309	1.00 50.29
ATOM	3128	OH2	WAT	E	151	47.558	103.431	82.513	1.00 45.87
ATOM	3129	OH2	WAT	E	152	55.271	103.449	95.672	1.00 54.00
ATOM	3130	OH2	WAT	E	153	66.130	110.065	39.936	1.00 48.95
ATOM	3131	OH2	WAT	E	154	72.667	71.536	73.794	1.00 44.11
ATOM	3132	OH2	WAT	E	155	67.941	89.907	74.700	1.00 60.17
ATOM	3133	OH2	WAT	E	156	47.486	91.256	78.050	1.00 51.26
ATOM	3134	OH2	WAT	E	157	60.804	99.366	50.280	1.00 48.64
ATOM	3135	OH2	WAT	E	158	49.904	78.493	65.902	1.00 54.84
ATOM	3136	OH2	WAT	E	159	55.775	57.453	68.939	1.00 53.30
ATOM	3137	OH2	WAT	E	160	56.880	98.709	80.153	1.00 54.62
ATOM	3138	OH2	WAT	E	161	52.343	96.247	56.702	1.00 47.16
ATOM	3139	OH2	WAT	E	162	67.769	100.519	44.244	1.00 50.60
ATOM	3140	OH2	WAT	E	163	60.399	103.540	86.466	1.00 55.60
ATOM	3141	OH2	WAT	E	164	40.228	88.607	74.779	1.00 53.43
ATOM	3142	OH2	WAT	E	165	62.598	65.205	58.211	1.00 48.40
ATOM	3143	OH2	WAT	E	166	56.970	121.305	50.187	1.00 58.53
ATOM	3144	OH2	WAT	E	167	75.107	81.056	68.634	1.00 50.00
ATOM	3145	OH2	WAT	E	168	37.034	72.224	76.969	1.00 63.44
ATOM	3146	OH2	WAT	E	169	40.374	80.908	79.357	1.00 44.47
ATOM	3147	OH2	WAT	E	170	46.842	113.093	101.122	1.00 52.71
ATOM	3148	OH2	WAT	E	171	41.711	75.865	65.182	1.00 45.59
ATOM	3149	OH2	WAT	E	172	44.690	89.009	76.455	1.00 45.39
ATOM	3150	OH2	WAT	E	173	66.272	103.567	34.052	1.00 46.91
ATOM	3151	OH2	WAT	E	174	58.618	114.458	60.840	1.00 45.29
ATOM	3152	OH2	WAT	E	175	49.180	55.077	66.952	1.00 52.67
ATOM	3153	OH2	WAT	E	176	58.452	91.391	70.074	1.00 49.17
ATOM	3154	OH2	WAT	E	177	59.241	126.060	34.558	1.00 60.35
ATOM	3155	OH2	WAT	E	178	58.267	95.780	89.455	1.00 49.85
ATOM	3156	OH2	WAT	E	179	42.139	106.880	99.218	1.00 57.42
ATOM	3157	OH2	WAT	E	180	38.334	100.611	61.778	1.00 47.82
ATOM	3158	OH2	WAT	E	181	42.901	97.734	40.352	1.00 45.10
ATOM	3159	OH2	WAT	E	182	39.248	71.391	76.122	1.00 54.67
ATOM	3160	OH2	WAT	E	183	64.892	116.935	33.180	1.00 57.26
ATOM	3161	OH2	WAT	E	184	67.815	63.874	61.637	1.00 54.21
ATOM	3162	OH2	WAT	E	185	49.645	56.877	69.081	1.00 52.27
ATOM	3163	OH2	WAT	E	186	63.467	65.490	77.338	1.00 46.94
ATOM	3164	OH2	WAT	E	187	45.012	92.160	79.113	1.00 55.12
ATOM	3165	OH2	WAT	E	188	55.738	114.556	85.668	1.00 65.18
ATOM	3166	OH2	WAT	E	189	33.772	75.163	63.609	1.00 64.30
ATOM	3167	OH2	WAT	E	190	46.955	121.514	36.162	1.00 53.37

ATOM	3168	OH2	WAT	E	191	49.248	95.306	49.636	1.00	57.33
ATOM	3169	OH2	WAT	E	192	61.807	108.169	29.772	1.00	56.59
ATOM	3170	OH2	WAT	E	193	75.769	72.480	71.125	1.00	59.33
ATOM	3171	OH2	WAT	E	194	43.596	111.544	99.537	1.00	51.40
ATOM	3172	OH2	WAT	E	195	32.993	93.747	65.585	1.00	57.80
ATOM	3173	OH2	WAT	E	196	48.732	95.447	76.890	1.00	57.11
ATOM	3174	OH2	WAT	E	197	50.206	88.759	70.508	1.00	45.98
ATOM	3175	OH2	WAT	E	198	52.048	102.191	80.026	1.00	62.52
ATOM	3176	OH2	WAT	E	199	52.763	57.429	69.141	1.00	45.82
ATOM	3177	OH2	WAT	E	200	50.985	58.438	71.537	1.00	55.03
ATOM	3178	OH2	WAT	E	201	47.844	111.269	19.798	1.00	50.89
ATOM	3179	OH2	WAT	E	202	43.875	110.492	21.633	1.00	39.25
ATOM	3180	OH2	WAT	E	203	46.277	108.614	20.853	1.00	51.89
ATOM	3181	OH2	WAT	E	204	69.844	96.996	78.496	1.00	52.17
ATOM	3182	OH2	WAT	E	205	42.190	92.390	54.399	1.00	55.93
ATOM	3183	OH2	WAT	E	206	75.252	78.299	74.554	1.00	60.40
ATOM	3184	OH2	WAT	E	207	50.635	112.338	20.679	1.00	45.55
ATOM	3185	OH2	WAT	E	208	28.497	96.914	64.121	1.00	55.56
ATOM	3186	OH2	WAT	E	209	33.286	83.999	75.046	1.00	56.66
ATOM	3187	OH2	WAT	E	210	64.018	117.866	30.489	1.00	52.53
ATOM	3188	OH2	WAT	E	211	36.202	98.630	52.191	1.00	56.08
ATOM	3189	OH2	WAT	E	212	65.460	63.991	71.434	1.00	61.30
ATOM	3190	OH2	WAT	E	213	48.131	73.348	63.633	1.00	56.78
ATOM	3191	OH2	WAT	E	214	51.561	85.419	64.172	1.00	53.92
ATOM	3192	OH2	WAT	E	215	53.937	99.815	80.298	1.00	48.42
ATOM	3193	OH2	WAT	E	216	52.882	123.871	48.852	1.00	56.54
ATOM	3194	OH2	WAT	E	217	48.663	72.035	60.499	1.00	56.45
ATOM	3195	OH2	WAT	E	218	64.512	114.204	22.337	1.00	61.25
ATOM	3196	OH2	WAT	E	219	47.654	77.531	67.007	1.00	48.86
ATOM	3197	OH2	WAT	E	220	66.173	98.532	39.210	1.00	63.15
ATOM	3198	OH2	WAT	E	221	62.243	101.159	32.122	1.00	54.69
ATOM	3199	OH2	WAT	E	222	75.470	74.900	74.767	1.00	55.09
ATOM	3200	OH2	WAT	E	223	36.079	98.005	45.925	1.00	56.06
ATOM	3201	OH2	WAT	E	224	59.148	87.588	58.466	1.00	59.23
ATOM	3202	OH2	WAT	E	225	49.256	94.165	59.001	1.00	62.56
ATOM	3203	OH2	WAT	E	226	43.696	88.791	67.563	1.00	48.80
ATOM	3204	C1	MPD	F	805	53.822	92.391	74.371	1.00	55.30
ATOM	3205	C2	MPD	F	805	55.152	91.990	75.015	1.00	56.18
ATOM	3206	C3	MPD	F	805	54.939	91.022	76.211	1.00	54.98
ATOM	3207	C4	MPD	F	805	56.153	90.249	76.754	1.00	53.87
ATOM	3208	C5	MPD	F	805	55.879	89.684	78.155	1.00	39.74
ATOM	3209	CM	MPD	F	805	56.056	91.387	73.933	1.00	50.17
ATOM	3210	O2	MPD	F	805	55.794	93.147	75.477	1.00	63.81
ATOM	3211	O4	MPD	F	805	56.445	89.167	75.903	1.00	49.48
ATOM	3212	C1	MPD	F	806	56.438	84.455	90.039	1.00	68.27
ATOM	3213	C2	MPD	F	806	55.587	83.173	89.992	1.00	63.94
ATOM	3214	C3	MPD	F	806	55.820	82.290	88.742	1.00	61.26
ATOM	3215	C4	MPD	F	806	55.784	82.996	87.373	1.00	58.22
ATOM	3216	C5	MPD	F	806	55.850	81.986	86.233	1.00	50.72
ATOM	3217	CM	MPD	F	806	55.837	82.349	91.258	1.00	66.43
ATOM	3218	O2	MPD	F	806	54.242	83.548	90.016	1.00	71.30
ATOM	3219	O4	MPD	F	806	54.592	83.748	87.236	1.00	50.45
ATOM	3220	C1	MPD	F	807	44.366	108.799	54.200	1.00	59.01
ATOM	3221	C2	MPD	F	807	43.697	107.509	54.699	1.00	62.54
ATOM	3222	C3	MPD	F	807	44.001	106.239	53.848	1.00	62.70
ATOM	3223	C4	MPD	F	807	45.452	106.015	53.358	1.00	65.91
ATOM	3224	C5	MPD	F	807	45.689	104.539	52.992	1.00	58.23
ATOM	3225	CM	MPD	F	807	44.088	107.275	56.170	1.00	58.30
ATOM	3226	O2	MPD	F	807	42.302	107.705	54.684	1.00	68.71
ATOM	3227	O4	MPD	F	807	45.701	106.795	52.199	1.00	62.79
ATOM	3228	C1	MPD	F	808	60.483	95.759	78.641	1.00	63.69
ATOM	3229	C2	MPD	F	808	60.451	95.532	80.160	1.00	66.02
ATOM	3230	C3	MPD	F	808	60.918	96.784	80.941	1.00	65.45
ATOM	3231	C4	MPD	F	808	61.112	96.615	82.467	1.00	64.37
ATOM	3232	C5	MPD	F	808	62.410	95.871	82.803	1.00	62.14
ATOM	3233	CM	MPD	F	808	59.030	95.125	80.594	1.00	62.63

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ATOM   3234  O2  MPD F 808      61.298  94.442  80.470  1.00 62.22
ATOM   3235  O4  MPD F 808      61.182  97.877  83.079  1.00 71.17
ATOM   3236  C1  MPD F 809      56.897 110.205  82.031  1.00 63.66
ATOM   3237  C2  MPD F 809      55.502 109.582  82.083  1.00 62.03
ATOM   3238  C3  MPD F 809      54.440 110.546  82.713  1.00 65.60
ATOM   3239  C4  MPD F 809      53.560 110.012  83.881  1.00 66.97
ATOM   3240  C5  MPD F 809      53.339 111.073  84.972  1.00 70.59
ATOM   3241  CM  MPD F 809      55.078 109.169  80.669  1.00 60.75
ATOM   3242  O2  MPD F 809      55.590 108.398  82.824  1.00 67.48
ATOM   3243  O4  MPD F 809      52.290 109.627  83.404  1.00 67.36
ATOM   3244  C1  MPD F 810      45.871  71.109  75.014  1.00 65.92
ATOM   3245  C2  MPD F 810      44.689  72.010  75.378  1.00 65.46
ATOM   3246  C3  MPD F 810      44.530  73.209  74.393  1.00 66.28
ATOM   3247  C4  MPD F 810      43.791  74.467  74.919  1.00 66.37
ATOM   3248  C5  MPD F 810      44.006  75.668  74.009  1.00 64.62
ATOM   3249  CM  MPD F 810      43.416  71.153  75.425  1.00 65.87
ATOM   3250  O2  MPD F 810      44.889  72.495  76.679  1.00 69.52
ATOM   3251  O4  MPD F 810      42.408  74.228  74.976  1.00 70.17
ATOM   3252  C1  MPD F 811      44.778  87.219  60.401  1.00 67.52
ATOM   3253  C2  MPD F 811      44.627  88.676  59.963  1.00 62.75
ATOM   3254  C3  MPD F 811      44.534  88.853  58.417  1.00 65.85
ATOM   3255  C4  MPD F 811      43.182  88.595  57.671  1.00 68.59
ATOM   3256  C5  MPD F 811      43.431  88.187  56.213  1.00 65.65
ATOM   3257  CM  MPD F 811      43.424  89.307  60.676  1.00 65.84
ATOM   3258  O2  MPD F 811      45.746  89.384  60.420  1.00 67.28
ATOM   3259  O4  MPD F 811      42.450  87.544  58.270  1.00 70.92
ATOM   3260 SR+2 SR2 F 901      59.344 117.435  38.174  1.00 34.61
ATOM   3261 SR+2 SR2 F 902      68.611  73.114  67.033  1.00 40.20
ATOM   3262 NA+1 NA1 F 903      49.346  62.683  72.824  1.00 33.51
ATOM   3263 NA+1 NA1 F 904      51.079  58.814  69.091  1.00 36.34
END
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FIGURE 6A

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1       MANCQIAILY QRFQRVVFGI SQLLCFSALI SELTNQKEVA AWTYHYSTKA YSWNISRKYC
                                                    --------------------

61      QNRYTDLVAI QNKNEIDYLN KVLPYYSSYY WIGIRKNNKT WTWVGTKKAL TNEAENWADN
        ------------------------------------------------------------------

121     EPNNKRNNED CVEIYIKSPS APGKWNDEHC LKKKHALCYT ASCQDMSCSK QGECLETIGN
        ------------------------------------------------------------------

181     YTCSCYPGFY GPECEYVREC GELELPQHVL MNCSHPLGNF SFNSQCSFHC TDGYQVNGPS
        --------------------

241     KLECLASGIW TNKPPQCLAA QCPPLKIPER GNMICLHSAK AFQHQSSCSF SCEEGFALVG

301     PEVVQCTASG VWTAPAPVCK AVQCQHLEAP SEGTMDCVHP LTAFAYGSSC KFECQPGYRV

361     RGLDMLRCID SGHWSAPLPT CEAISCEPLE SPVHGSMDCS PSLRAFQYDT NCSFRCAEGF

421     MLRGADIVRC DNLGQWTAPA PVCQALQCQD LPVPNEARVN CSHPFGAFRY QSVCSFTCNE

481     GLLLVGASVL QCLATGNWNS VPPECQAIPC TPLLSPQNGT MTCVQPLGSS SYKSTCQFIC

541     DEGYSLSGPE RLDCTRSGRW TDSPPMCEAI KCPELFAPEQ GSLDCSDTRG EFNVGSTCHF

601     SCNNGFKLEG PNNVECTTSG RWSATPPTCK GIASLPTPGL QCPALTTPGQ GTMYCRHHPG

661     TFGFNTTCYF GCNAGFTLIG DSTLSCRPSG QWTAVTPACR AVKCSELHVN KPIAMNCSNL

721     WGNFSYGSIC SFHCLEGQLL NGSAQTACQE NGHWSTTVPT CQAGPLTIQE ALTYFGGAVA

781     STIGLIMGG LLALLRKRFR QKDDGKCPLN PHSHLGTYG FTNAAFDPSP
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FIGURE 6B

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1      MIASQFLSAL TLVLLIKESG AWSYNTSTEA MTYDEASAYC QQRYTHLVAI QNKEEIEYLN
                                 ----------------------------------------

61     SILSYSPSYY WIGIRKVNNV WVWVGTQKPL TEEAKNWAPG EPNNRQKDED CVEIYIKREK
       ------------------------------------------------------------------

121    DVGMWNDERC SKKKLALCYT AACTNTSCSG HGECVETINN YTCKCDPGFS GLKCEQIVNC
       ----------------------------------------------------------------

181    TALESPEHGS LVCSHPLGNF SYNSSCSISC DRGYLPSSME TMQCMSSGEW SAPIPACNVV

241    CDAVTNPAN GFVECFQNPG  SFPWNTTCTF DCEEGFELMG AQSLQCTSSG NWDNEKPTCK

301    AVTCRAVRQP QNGSVRCSHS PAGEFTFKSS CNFTCEEGFM LQGPAQVECT TQGQWTQQIP

361    VCEAFQCTAL SNPERGYMNC LPSASGSFRY GSSCEFSCEQ GFVLKGSKRL QCGPTGEWDN

421    EKPTCEAVRC DAVHQPPKGL VRCAHSPIGE FTYKSSCAFS CEEGFELHGS TQLECTSQGQ

481    WTEEVPSCQV VKCSSLAVPG KINMSCSGEP VFGTVCKFAC PEGWTLNGSA ARTCGATGHW

541    SGLLPTCEAP TESNIPLVAG LSAAGLSLLT LAPFLLWLRK CLRKAKKFVP ASSCQSLESD

601    GSYQKPSYIL
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FIGURE 6C

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  1   MPLQLLLLLI LLGPGNSLQL WDTWADEAEK ALGPLLARDR RQATEYEYLD YDFLPETEPP
                                                 --------- ----------

 61   EMLRNSTDTT PLTGPGTPES TTVEPAARRS TGLDAGGAVT ELTTELANMG NLSTDSAAME

121   IQTTQPAATE AQTTQPVPTE AQTTPLAATE AQTTRLTATE AQTTPLAATE AQTTPPAATE

181   AQTTQPTGLE AQTTAPAAME AQTTAPAAME AQTTPPAAME AQTTQTTAME AQTTAPEATE

241   AQTTQPTATE AQTTPLAAME ALSTEPSATE ALSMEPTTKR GLFIPFSVSS VTHKGIPMAA

301   SNLSVNYPVG APDHISVKQC LLAILILALV ATIFFVCTVV LAVRLSRKGH MYPVRNYSPT

361   EMVCISSLLP DGGEGPSATA NGGLSKAKSP GLTPEPREDR EGDDLTLHSF LP
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Redacted per Section 552 of the FOIA